Road Workers' Dilemma: Exploring Health Equity in the Management of Malignant Small Bowel Obstruction Adebayo, O.W.,¹ Brigham, P.,¹ Esposito, S.,¹ Luhar, R.,¹ Mamgain, A.,¹ Brown, K.,¹ Dewdney, S.,² Price, T.,³ Yang, F.,⁴ Siparsky, N.³

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BACKGROUND

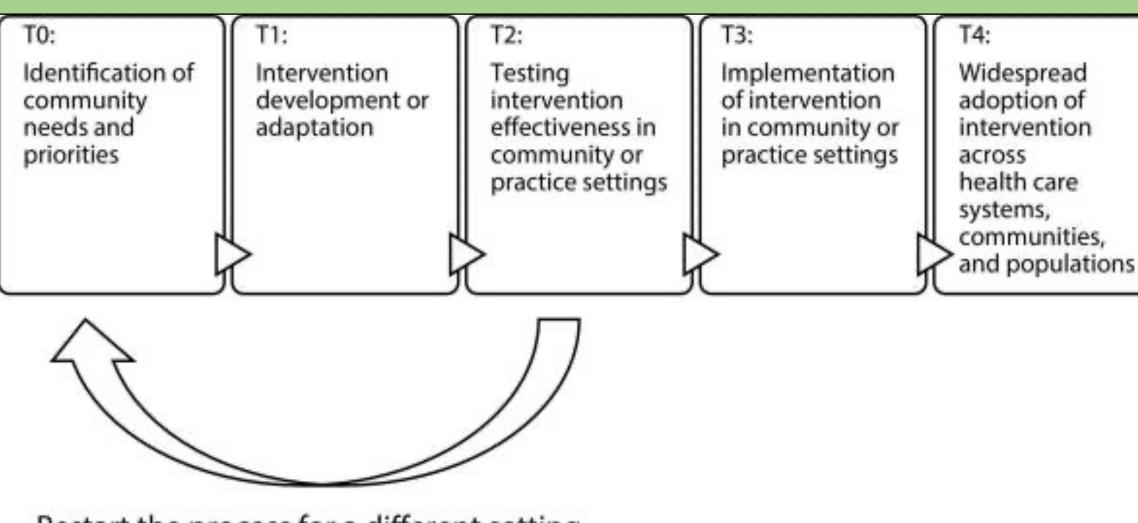
African American/Black patients experience cancer care disparities contributing to higher morbidity and mortality.^{1,2}

Study Aim

This study evaluates interventions for malignant small bowel obstruction (mSBO), a common complication of metastatic cancer, to investigate the potential influence of race on its management.



This CT scan demonstrates a malignant SBO due to esophageal cancer metastasis with upstream dilation and *downstream collapse.*³



Restart the process for a different setting, population, or health condition

Translational Research Continuum for Health Disparity Interventions.⁴

We retrospectively reviewed charts at a US academic medical center, identifying 283 patients with malignant small bowel obstruction (mSBO).

Construct Groups

Demographics **Hospital Stay** Diagnosis Medical Intervention History

Medical Intervention Outcomes

Dexamethasone Use

STUDY FRAMEWORK

METHOD

Assessed Constructs

Variables

Age, birth sex, gender, race, ethnicity

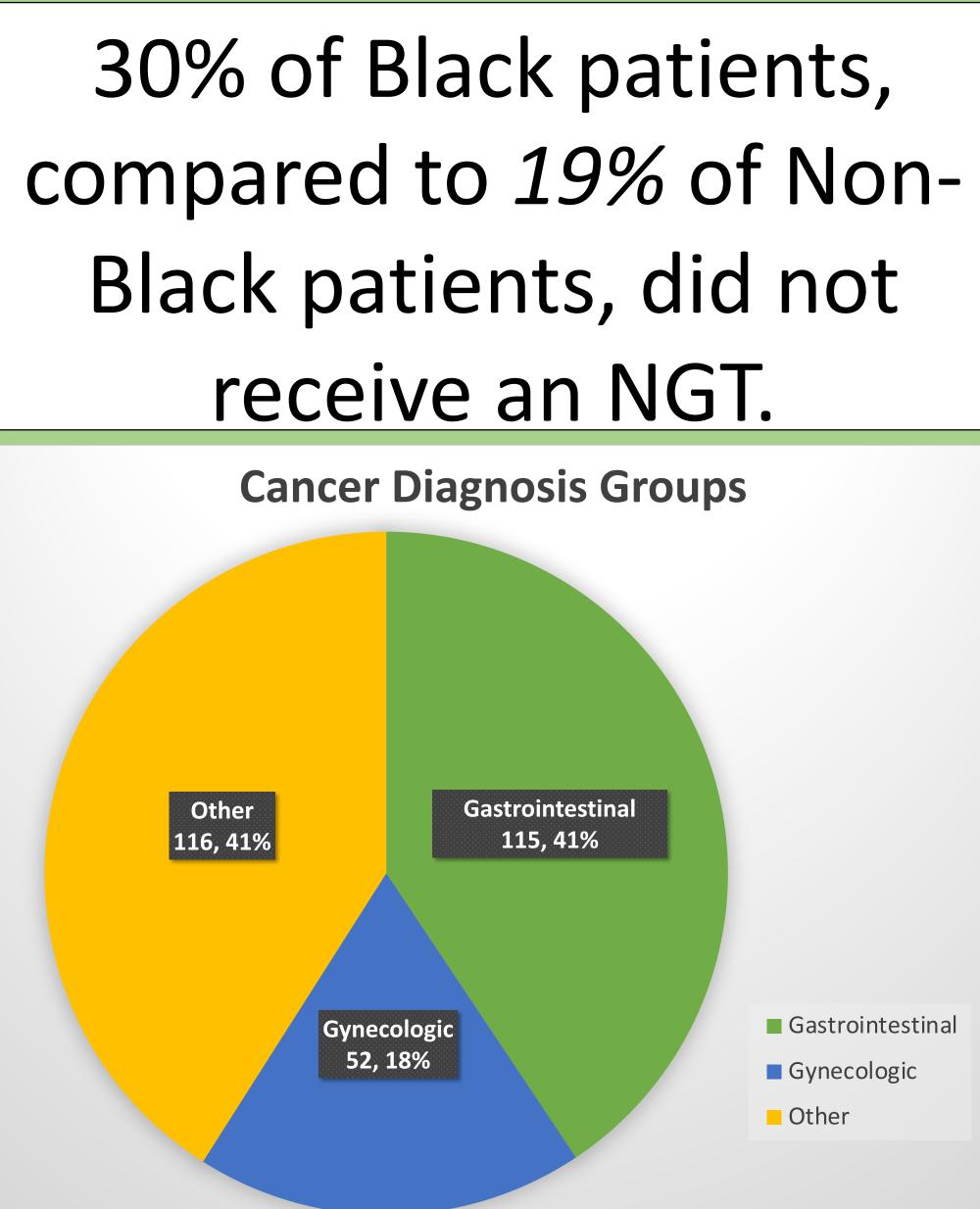
Date of current admission and discharge

Cancer and mSBO diagnosis

Surgical intervention, non-surgical intervention, endoscopic intervention, gastrograffin challenge, nasogastric decompression

Return to baseline diet, tolerating baseline diet, resolution of mSBO

Yes or No



- Black patients.
- gynecologic cancers (18%).

RESULT

• Gynecologic cancers - Breast (7.8% vs. 3.1%) and genitourinary (12% vs. 5.4%) were higher in

mSBO from gastrointestinal cancers had a higher likelihood of resolution (34%) compared to

Study Outcomes				
Variables	Overall	Non- Black	Black	P-value
NGT Insertion				0.038*
No	70 (25%)	24 (19%)	46 (30%)	
Yes	210 (75%)	104 (81%)	106 (70%)	
Missing	3	2	1	
Dexamethasone Use				0.76
No	223 (79%)	104 (80%)	119 (78%)	
Yes	60 (21%)	26 (20%)	34 (22%)	
SBO Resolution				0.89
No	137 (48%)	64 (49%)	73 (48%)	
Yes	146 (52%)	66 (51%)	80 (52%)	

CONCLUSION

Unexplored variations in non-surgical mSBO management may exist in racial groups, requiring further research to enhance insights into health equity in cancer care.

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