

Submission ID 3413: Predictors of Navigation Resource Utilization in Cancer: A Retrospective Study

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Background and Objectives

Cancer Patient Navigation (PN) is a **Nurse-led** service dedicated to helping patients, families, and caregivers **navigate** complex **healthcare systems**.

Our Focus:

- Reducing disparities in underserved communities
- Ensuring timely, high-quality care**
- Enhancing patient outcomes

Aim: Identify patients with the highest resource needs to guide referrals to PN services.

Objectives:

- Measure the duration of the initial navigation encounter
- Quantify PN encounters within 12 months post-diagnosis
- Determine predictors of resource utilization

Methods

Newly diagnosed cancer patients (**2017–2022**) were identified from the PN Database and matched with the Cancer Registry. Data Categorization:

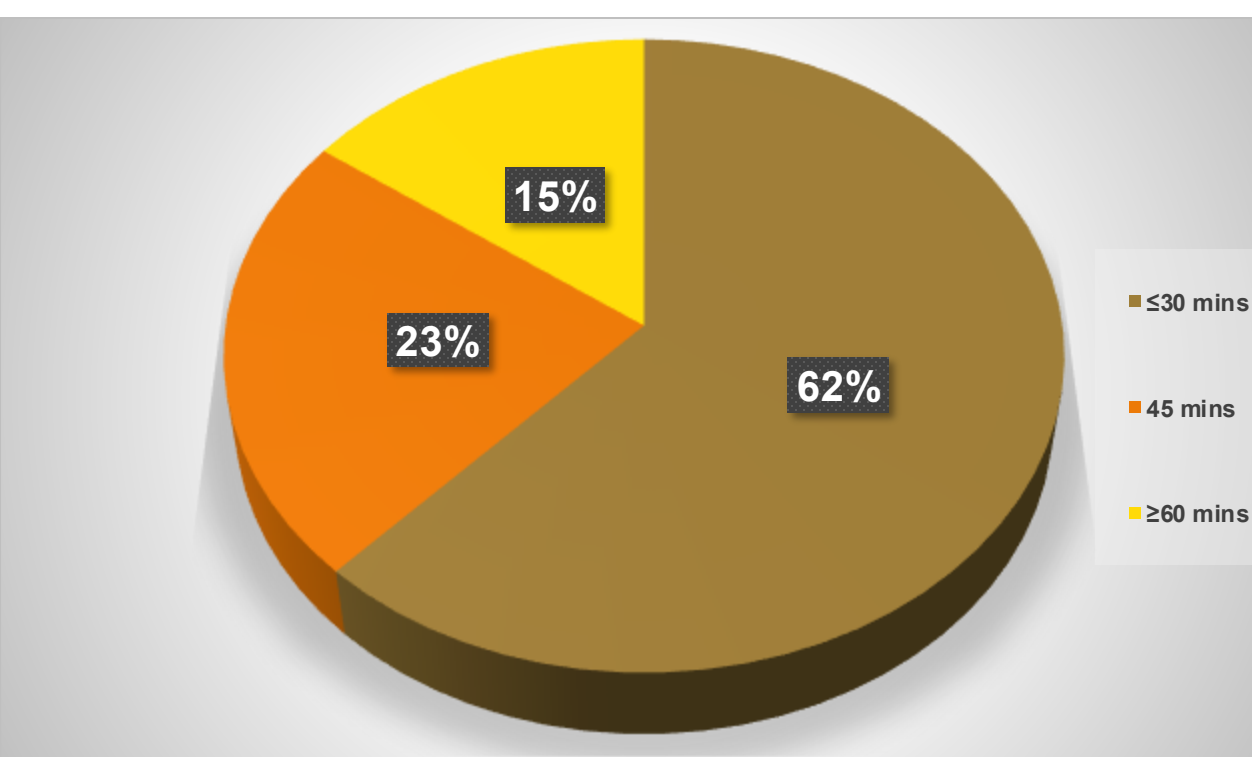
- Duration of Initial Navigation Encounter: **≤30, 45, or ≥60 minutes**.
- Number of Navigation Encounters: **1–2, 3–5, 6–10, or >10 encounters** within 12 months post-diagnosis.

Statistical Analysis: Descriptive statistics and regression analysis were used to evaluate outcomes and identify predictors of resource utilization.

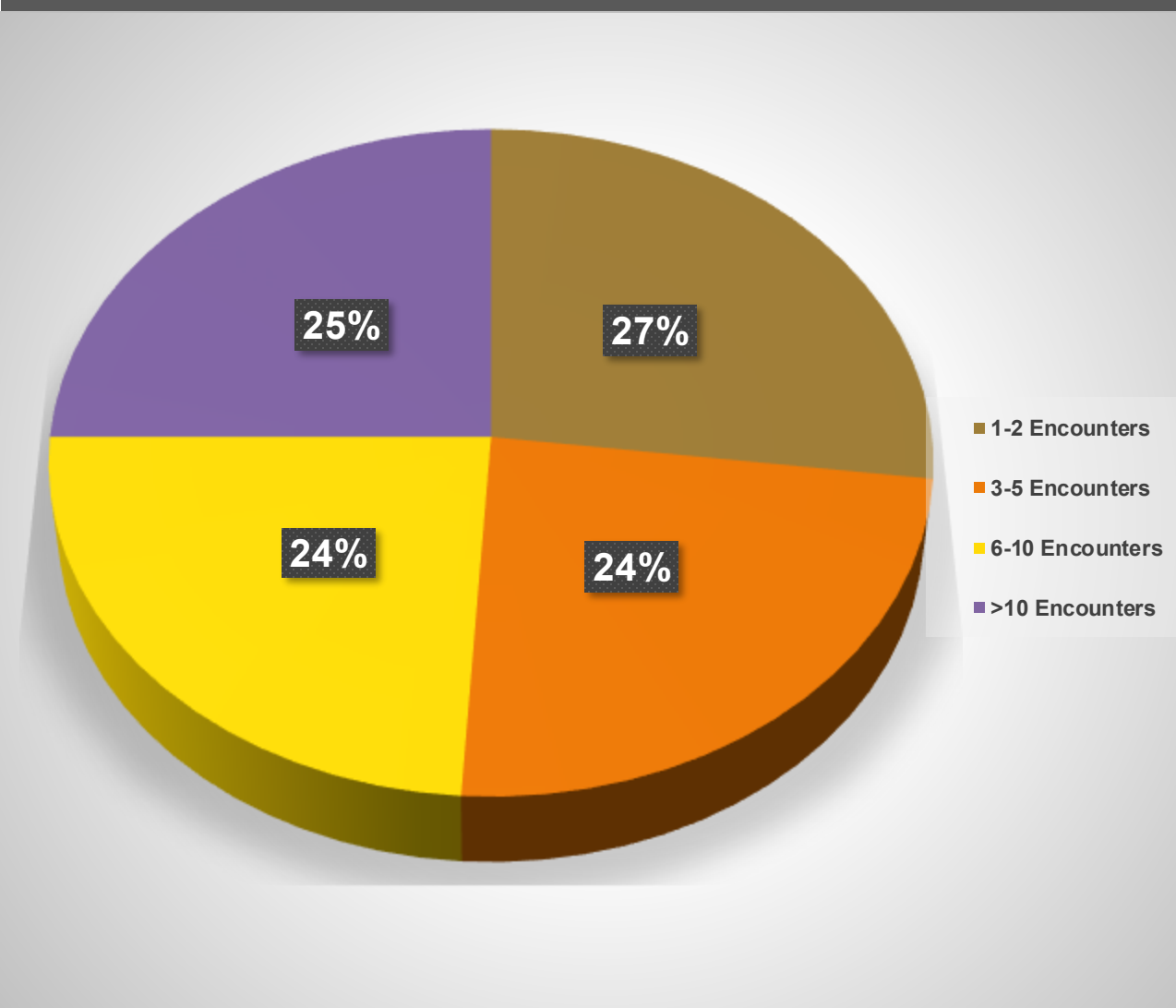
1-Demographic (N=1836)

Variables	
Median Age	63 (18-99)
Female Sex	66%
Black Race	21%
Hispanic Ethnicity	3%
Top Cancers	
Breast	37%
Hematologic	11%
Upper GI	7%
Stage	
II-IV	61%
% Federal Poverty Line (FPL)	
< 300%	61%
Rural / Urban (RUCA)	
Metropolitan area	89%

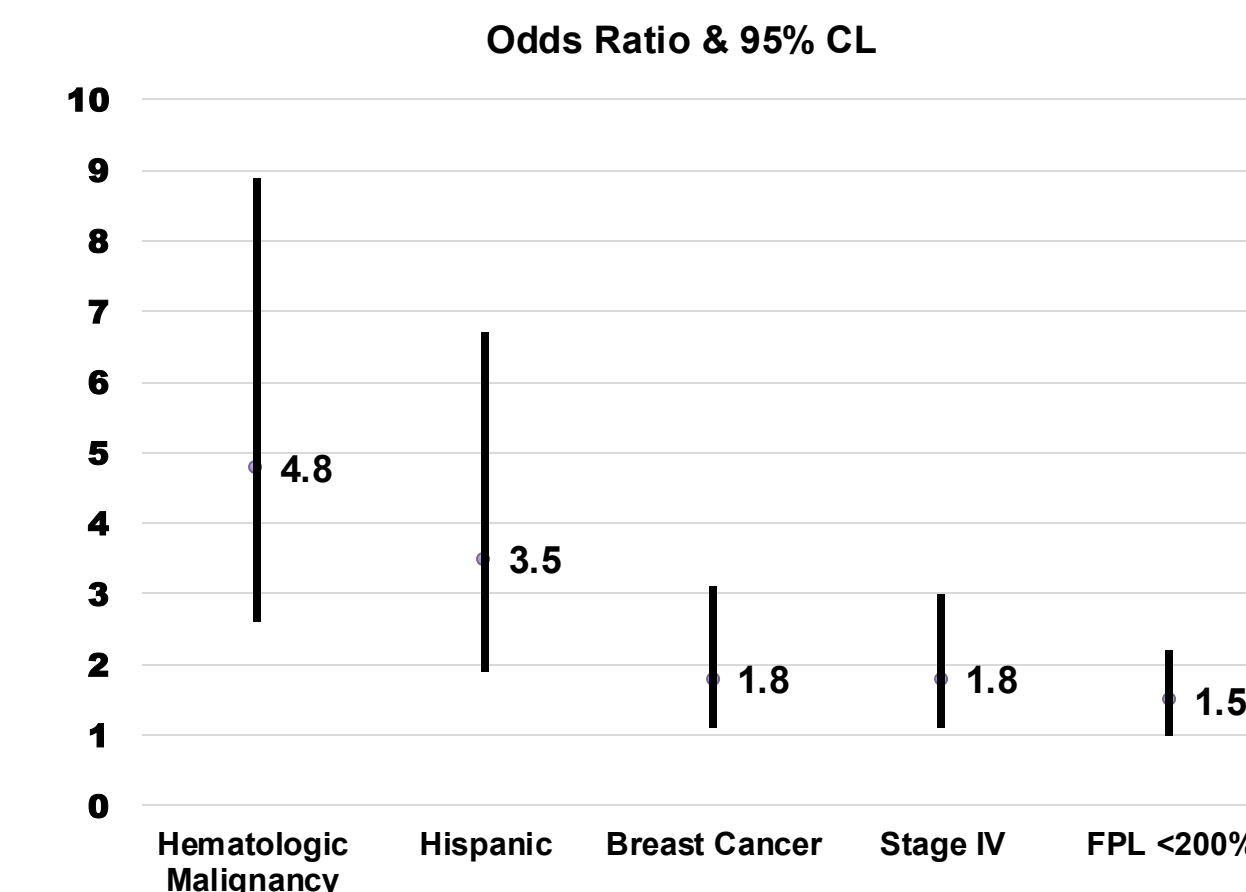
2-First Navigation Encounter: Duration



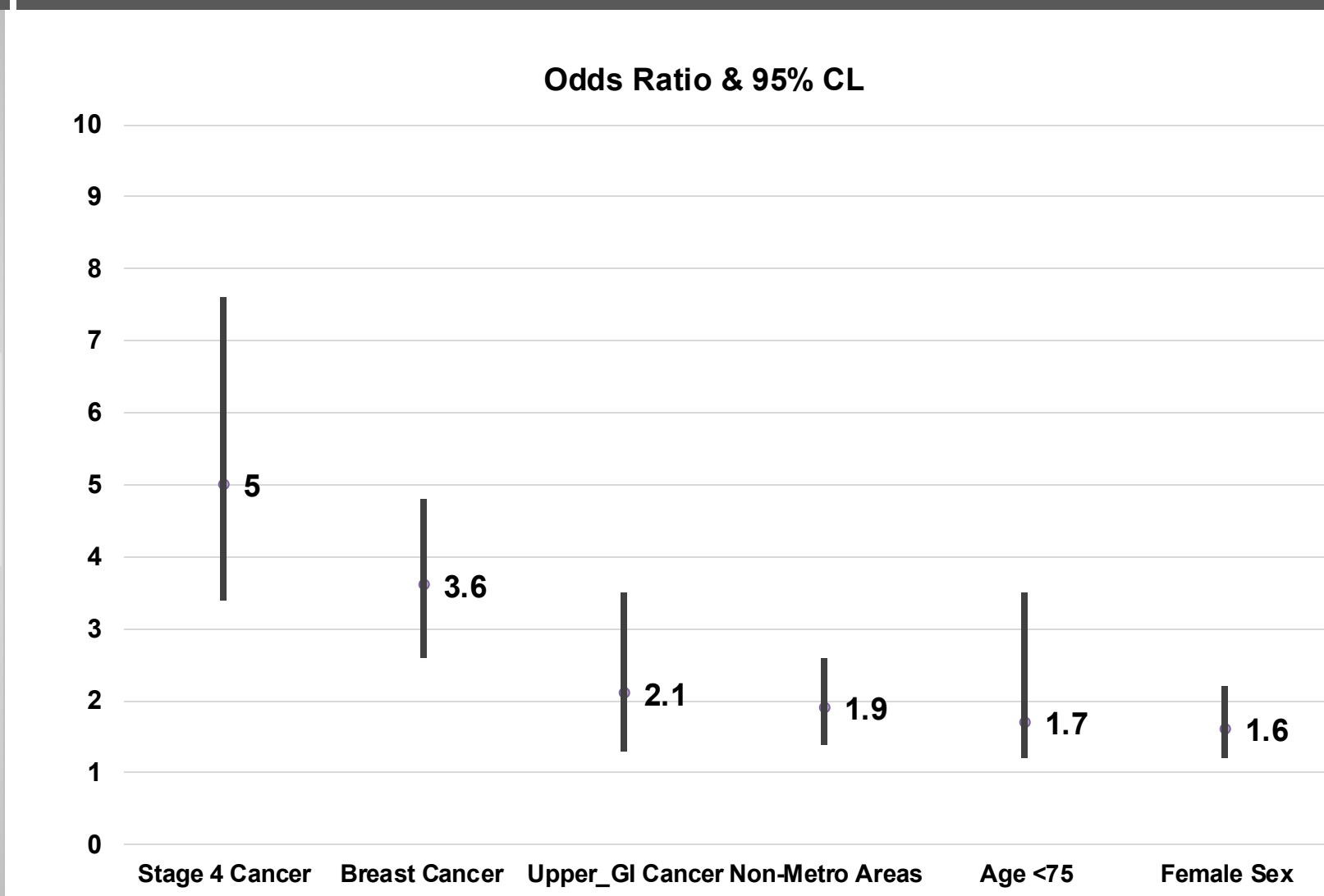
3-Number of Navigation Encounters



4-First Encounter Duration: Predictors



5-Number of Navigation Encounters: Predictors



References: Age>75; Cancer Site: Lower GI; Cancer Stage: I; Ethnicity: Non-Hispanic; RUCA: Metropolitan Area; FPL: ≥ 400%; Sex: Male

Conclusions

- A longer duration was associated with Hispanic ethnicity, cancer types, advanced disease, and lower income groups.
- More frequent encounters were associated with younger age, specific cancer types, advanced disease stage, and residence in non-metropolitan areas.
- Further research is needed to better identify patients with high resource needs, enabling optimized referral strategies and enhanced utilization of patient navigation services.