

# Epidemiology And Hospital Utilization In Peripheral T-cell Lymphoma: A Retrospective Study From The National Inpatient Sample 2023

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## INTRODUCTION

Peripheral T-cell lymphomas (PTCL) represent a heterogeneous group of non-Hodgkin lymphomas comprising approximately 10-15% of all NHL cases, characterized by aggressive clinical behavior and poor prognosis. Despite therapeutic advances including novel agents and consolidative autologous stem cell transplant, real-world data on hospitalization patterns, healthcare resource utilization, and outcomes remain limited 1,2.

## AIM

The objective of this study was to use National Inpatient Statistics (NIS) 2023 to evaluate the demographic, epidemiology, and clinical outcome of PTCL.

## METHOD

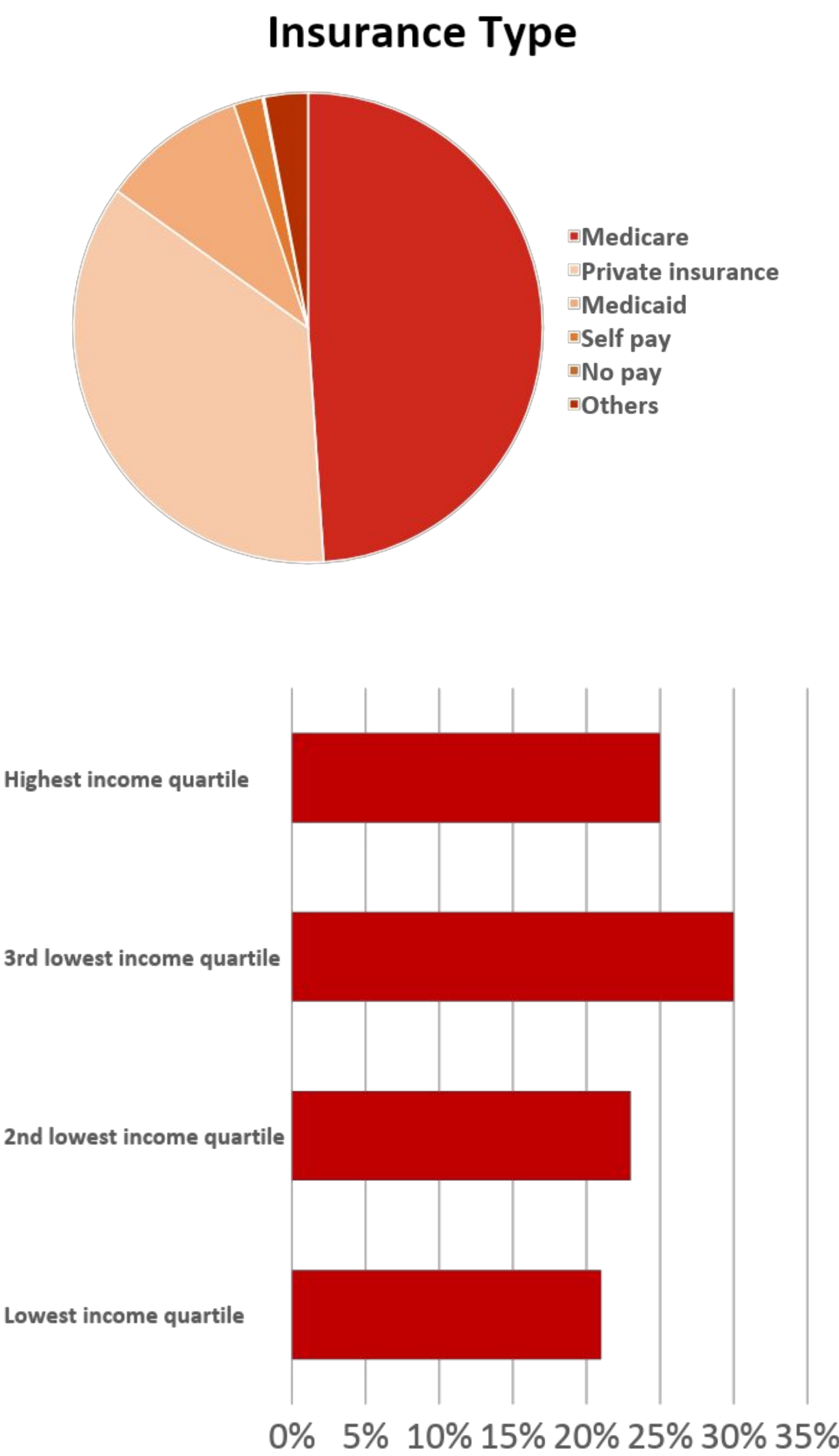
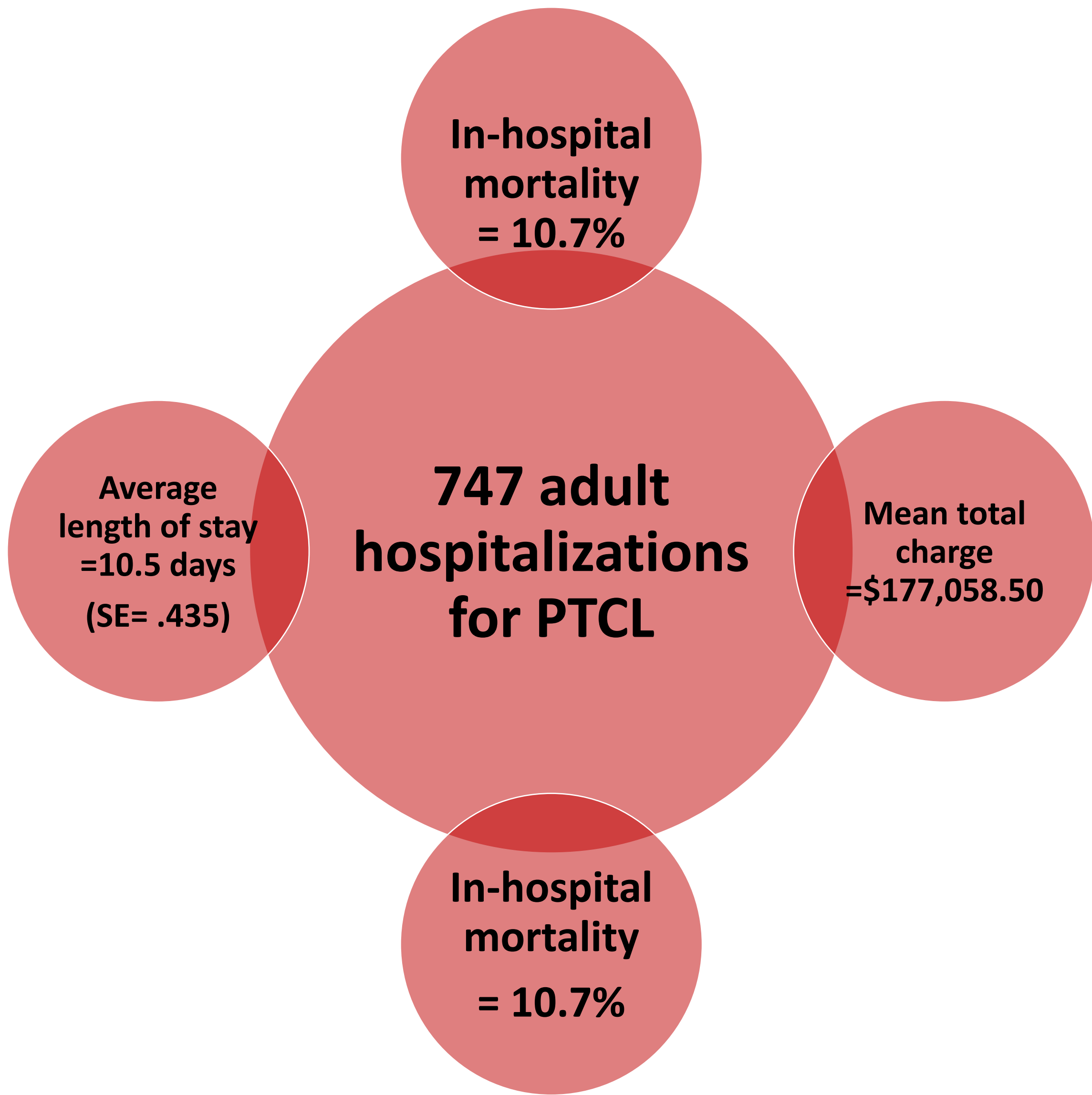
- Adult patients (≥18 years ) with PTCL identified using ICD-10-CM codes from the 2023 National Inpatient Sample (NIS).
- Patient demographics, hospital characteristics, comorbidity burden, treatment patterns, length of stay, hospitalization costs, and in-hospital mortality were analyzed.
- Multivariable logistic and linear regression models identified predictors of clinical outcomes and healthcare utilization. Analyses incorporated NIS discharge weights to generate national estimates, with statistical significance set at p<0.05.

## CONCLUSIONS

- PTCL is a rare disease, this national analysis demonstrates a substantial clinical and economic burden associated with PTCL-related hospitalizations. Variation in healthcare utilization across patient subgroups underscores critical disparities in care delivery.
- Collectively, these findings highlight the urgent need for targeted interventions and prospective studies to identify modifiable factors driving adverse outcomes and escalating costs in this high-risk population.

## RESULTS

- There were a total of 747 hospitalizations with PTCL observed.
- PTCL is found more commonly in men (477) compared to women (270).
- The average age was 63 years old (SE .54, p=.5).
- Disposition after hospitalization:
  - Home: 54%
  - Short term acute care facility: 3%,
  - Skilled nursing facility (SNF): 12%
  - Home health/ home hospice 20%



## REFERENCES

- Dharmani C, et al. Real-world treatment patterns, healthcare resource utilization and costs among patients with peripheral T-cell lymphoma in the United States. *Future Oncology*. 2024;20(18):1253-126
- Fiore D, et al. Introduction to the peripheral T-cell lymphoma review series. *Haematologica*. 2023;108(11):2925-2927

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