



Mahmoud Mansour¹, Ratib Mahfouz², Mohammad Darweesh³, Adham Obeidat⁴, Sanket Basida¹, Ahmad Ali¹
 1University of Missouri, Missouri, USA, 2Kent University, Rhode Island, USA, 3East Tennessee State University, Tennessee, USA, 4University of Hawaii, Hawaii

4 Results

- A total of 29,050 liver transplants were performed over the study period, of which, 10501 (36.1%) were females.
- After adjusting for comorbidities, socioeconomic, and demographic factors, White females were less likely to receive a liver transplant compared to White males (adjusted odds ratio [AOR] 0.74, $P < 0.001$)
- In contrast, Black and Hispanic females did not have a statistically significant difference in transplant compared to their male counterparts (AOR 1.05, $P = 0.568$ and 0.95, $P = 0.472$; respectively)
- Additionally, females older than 45 also had lower transplant rates than males of the same age group (AOR 0.77, $P < 0.001$)
- Females with Medicare or private insurance also had lower rates of transplant (AOR 0.76, $P < 0.001$ and 0.77, $P < 0.001$; respectively), while those with Medicaid did not (1.01, $P = 0.854$)
- Across all income quartiles and all geographic distributions, the female gender was independently associated with lower transplant rates.

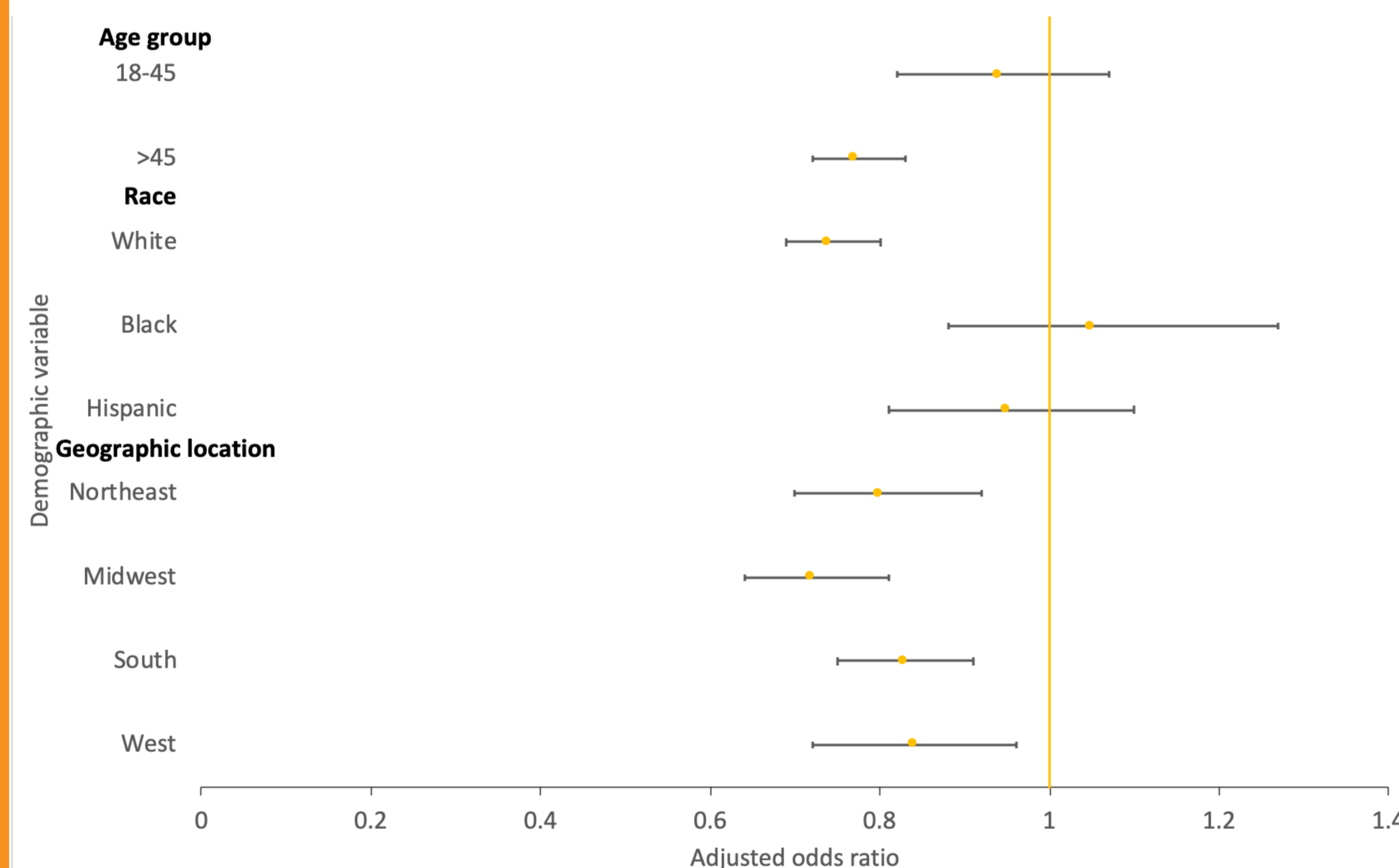


Figure 1: Adjusted odds ratios for receiving a liver transplant in females (vs. males) across different demographic variables

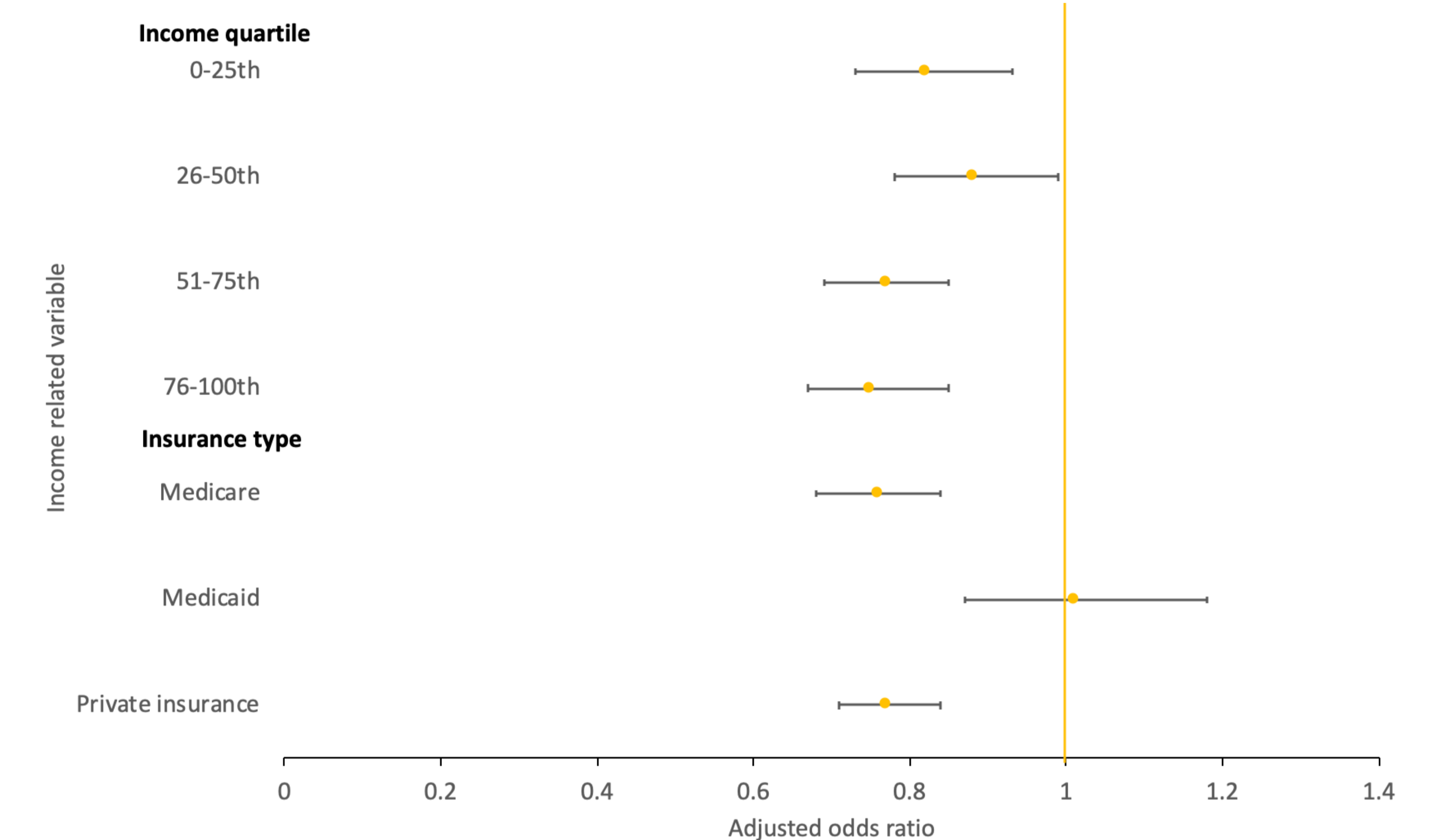


Figure 2: Adjusted odds ratios for receiving a liver transplant in females (vs. males) across different income and insurance related variables

5 Conclusions

- Females who were White, older than 45 years, or had Medicare or Private insurance had lower rates of a liver transplant than their male counterparts.
- Females also had lower transplant rates regardless of their income or geographic distribution.
- This study highlights the complex interactions between gender disparities and different socioeconomic variables.
- Further patient-level research is needed to help understand gender disparities in liver transplant to better advocate for patients suffering from end-stage liver disease.

6 Contact information

Mahmoud M Mansour, MD
 Internal Medicine, University of Missouri, Columbia
 Email: mmmnnb@health.missouri.edu
 Phone: 773-712-4099

1 Introduction

- Liver transplantation is a lifesaving therapy for patients suffering from end-stage liver disease.
- Equitable access to liver transplants is of paramount importance.
- Unfortunately, the gender gap, with females receiving fewer liver transplants, has increased further even after the validation of the Model for End-Stage Liver disease (MELD) in the United States in 2002.

2 Aim

This study aims to evaluate the gender gap in liver transplants across different socioeconomic variables.

3 Methods

This is a cross-sectional study using data from the national inpatient sample (NIS) between 2016 and 2019:

- We identified patients who underwent a liver transplant using the International Classification of Disease 10th Procedure Coding System (ICD-10-PCS).
- Multivariate logistic regression was used to evaluate the impact of gender on liver transplantation across different demographic groups.