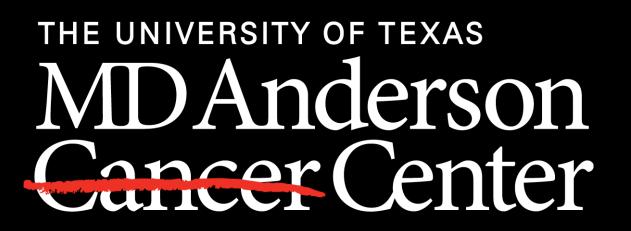


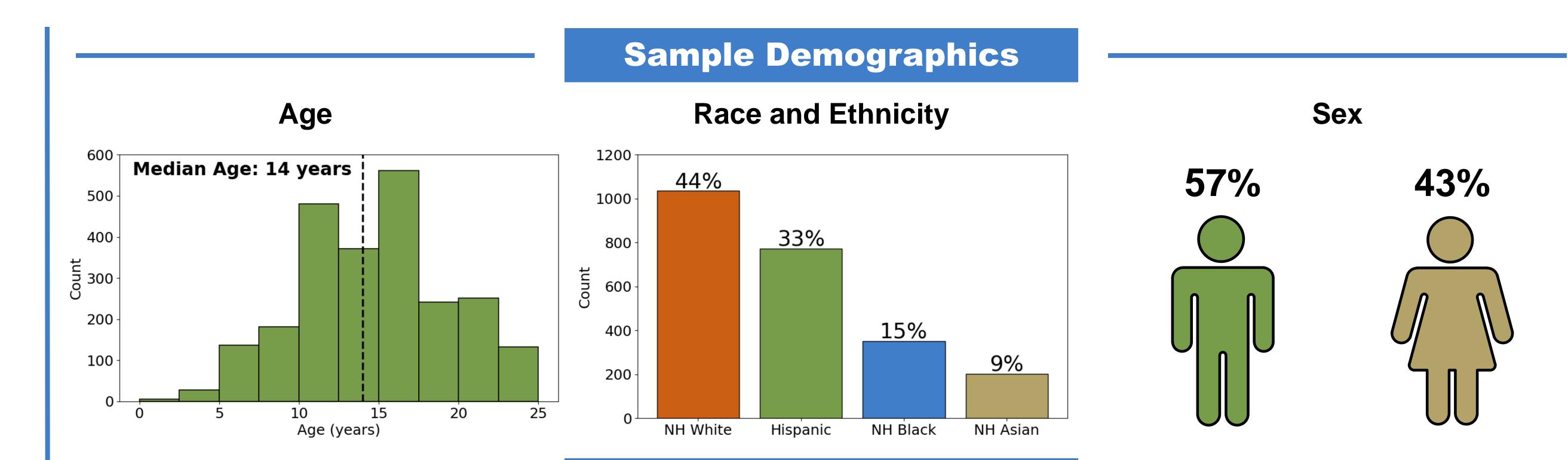
Associations between Sociodemographics and Pediatric Osteosarcoma Characteristics Connor Fritz^{1, 2}, Anthony Basta^{1,2}, Mary Austin^{1,2} 1. The University of Texas MD Anderson Cancer Center 2. University of Texas Health Houston, McGovern Medical School



Making Cancer History®

Background

- Osteosarcoma is the most common malignancy of bone¹
- Survival rates for osteosarcoma are around 70%²
- There has been little study of associations between patient characteristics, tumor features, and outcomes in pediatric osteosarcoma

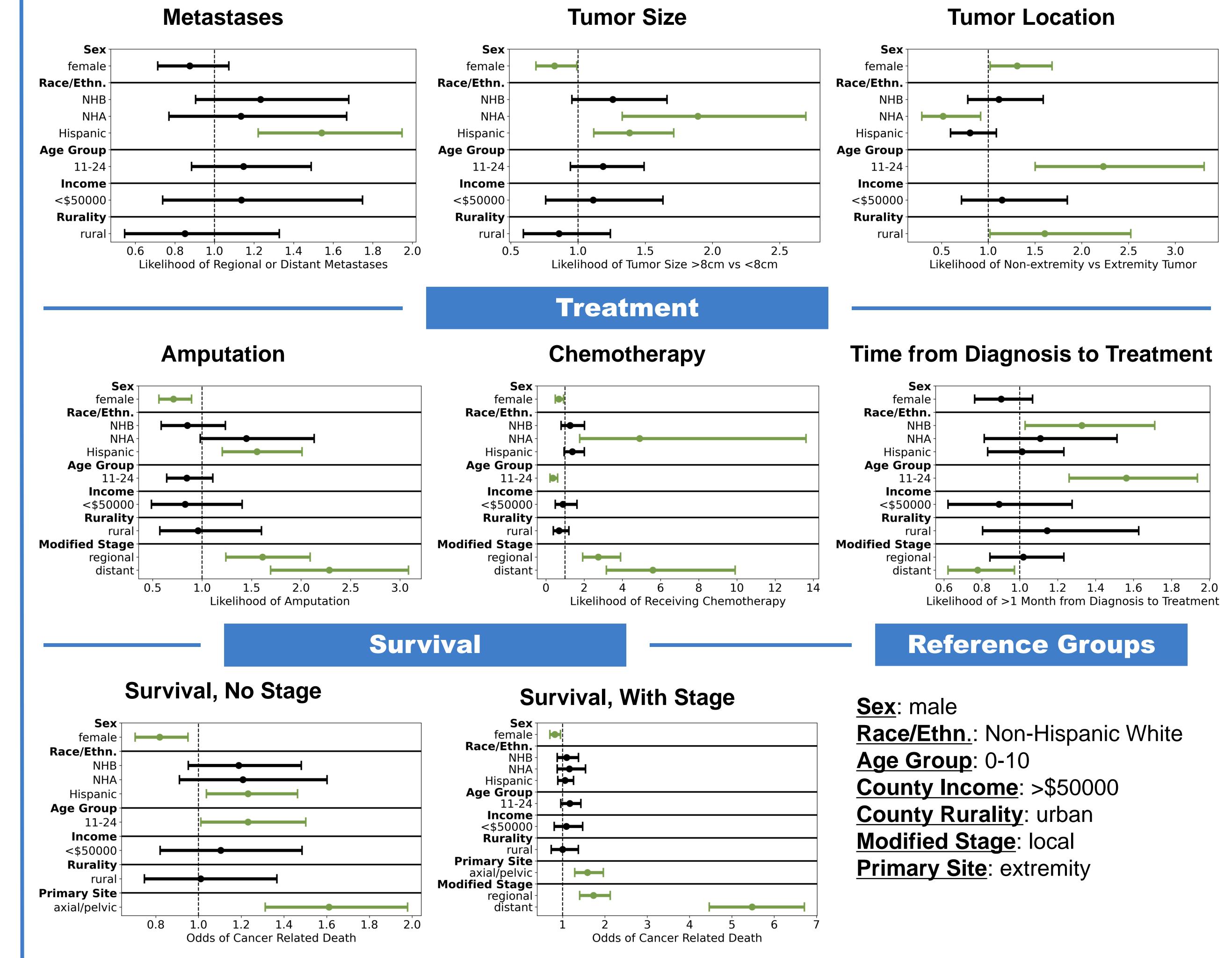


Purpose

- <u>Predictor variables</u>: sex, age group, race/ethnicity, county SES, rurality
- <u>Outcome variables</u>: tumor size, tumor site, metastases, chemotherapy, amputation, treatment time, survival
- How are these variables related?

Methods

- Surveillance Epidemiology and End Results: a national cancer registry
- Patients ages 0-24
- Samples from 2004-2020
- 2391 osteosarcoma cases
- Multivariate logistic regression to assess tumor features/treatment
- Multivariate Cox regression to assess cause-specific survival



Presentation

Conclusion

- Numerous disparities in pediatric osteosarcoma presentation, treatment and survival
- Differences occur across sex, race/ethnicity, age group and rurality
- Further work is needed to explain and address these disparities

References

Damron T, Ward W, Stewart A (2007).
Osteosarcoma, chondrosarcoma, and Ewing's sarcoma: National cancer data base report.
Clinical Orthopaedics and Related Research Siegel R, Miller K, Wagle N, Jemal A
(2023). Cancer Statistics, 2023. *Cancer*