

Temporal Improvements in Overall Survival Among Patients with Acute Myeloid Leukemia Across Racial and Ethnic Groups in the United States: A Population-Based Analysis of Survival Trends from 2000 to 2023

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INTRODUCTION:

- Acute myeloid leukemia (AML) remains an aggressive hematologic malignancy associated with poor long-term survival
- While overall survival has improved over time, it remains unclear whether these gains have been observed uniformly across racial and ethnic populations in the United States.

METHODS:

- Retrospective population-based analysis of 122,162 patients diagnosed with AML using the SEER database.
- Patients categorized by race/ethnicity as non-Hispanic White (NHW), non-Hispanic Black (NHB), Hispanic, and Asian/Pacific Islander (API), and stratified by year of diagnosis into 2000–2005, 2006–2017, and 2018 onward.
- Overall survival was assessed using Kaplan–Meier methods, and multivariable Cox proportional hazards regression was performed to identify independent predictors of mortality.

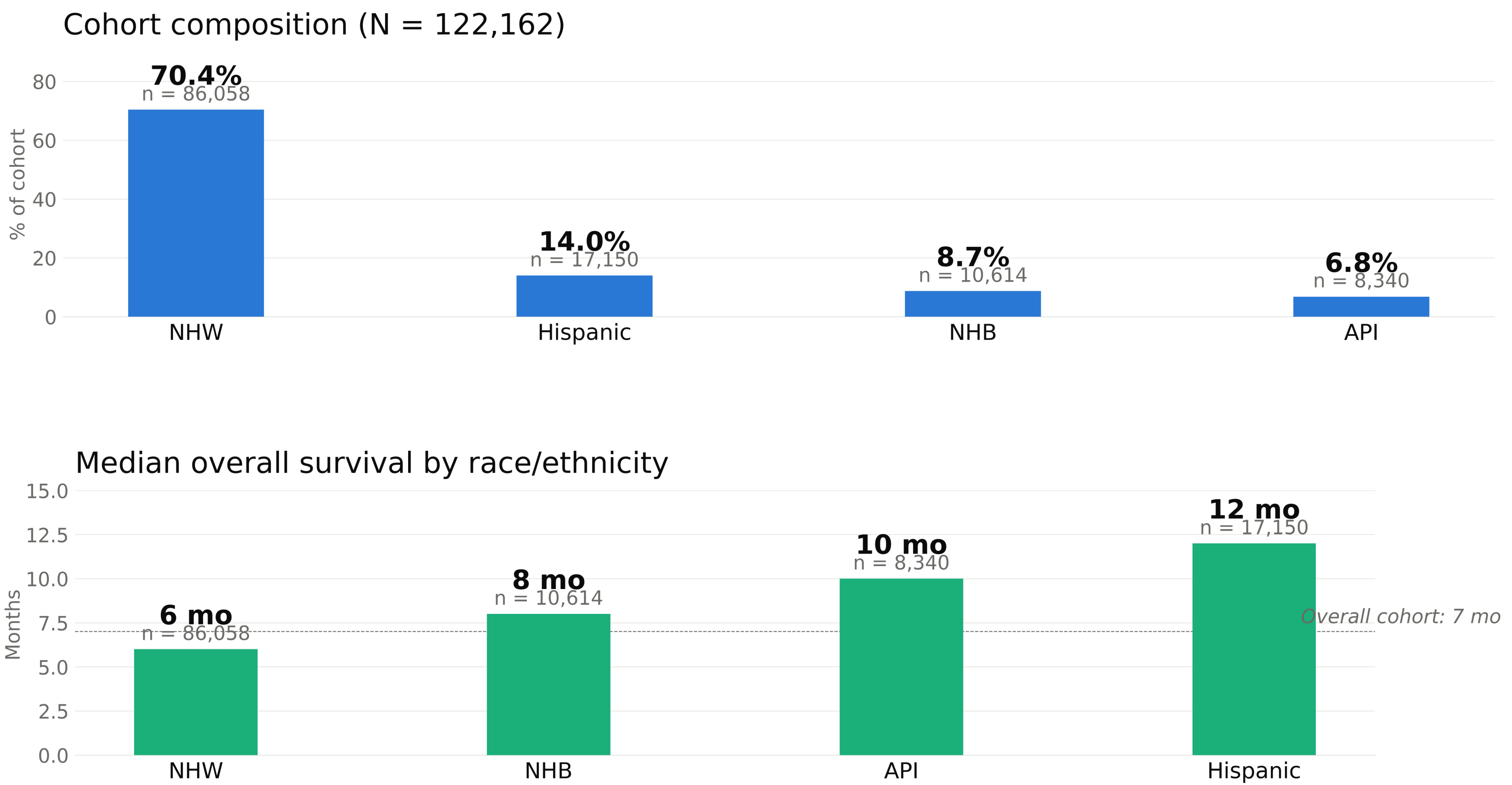
CONCLUSION:

Survival outcomes in AML have improved substantially over time across all racial and ethnic groups. However, persistent differences in survival suggest that demographic, socioeconomic, and treatment-related disparities continue to influence long-term outcomes.

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RESULTS:



Median overall survival (months) by diagnosis era
Later year of diagnosis was independently associated with improved survival in adjusted analyses, while older age, lower income, rural residence, and lack of chemotherapy were associated with worse outcomes.

Group	2000–2005	2006–2017	2018+
NHW	4	6	7
NHB	6	8	9
Hispanic	9	12	13
API	8	10	12