



RACIAL DISPARITIES IN OUTCOMES AMONG PATIENTS WITH NPM1-MUTATED AML: A PROPENSITY-MATCHED REAL-WORLD ANALYSIS



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INTRODUCTION

NPM1-mutated acute myeloid leukemia (AML) is generally considered favorable-risk disease, yet racial disparities in outcomes among these patients remain poorly characterized.

AIM

To evaluate racial disparities in mortality, stem cell transplant (SCT) utilization, and treatment-related complications among non-Hispanic White and non-Hispanic Black patients with NPM1-mutated AML.

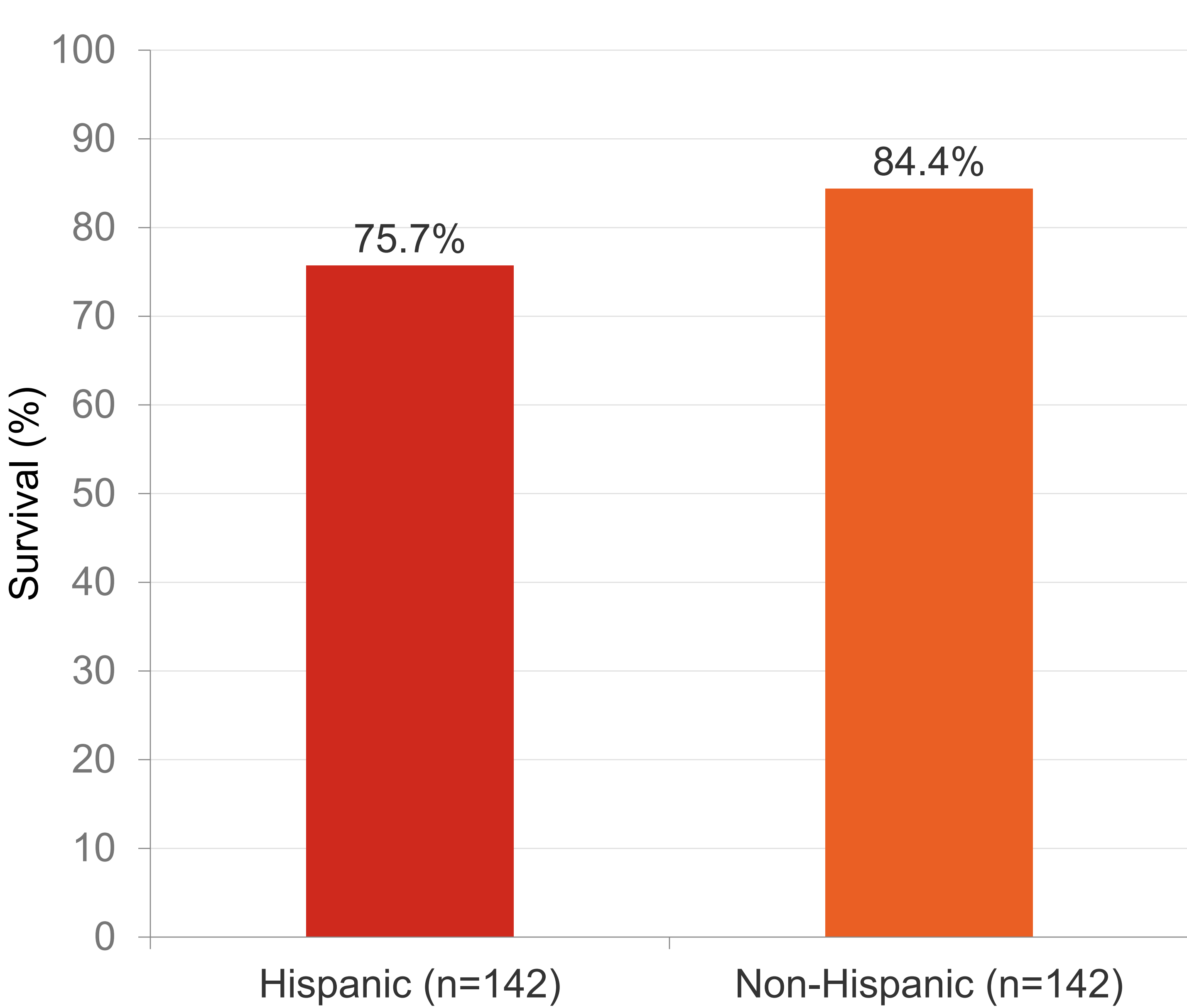
METHOD

- Retrospective cohort study using the TriNetX Research Network
- Adults with AML and documented NPM1 mutation, diagnosed January 2015 onward
 - Cohorts stratified by non-Hispanic White vs non-Hispanic Black race/ethnicity

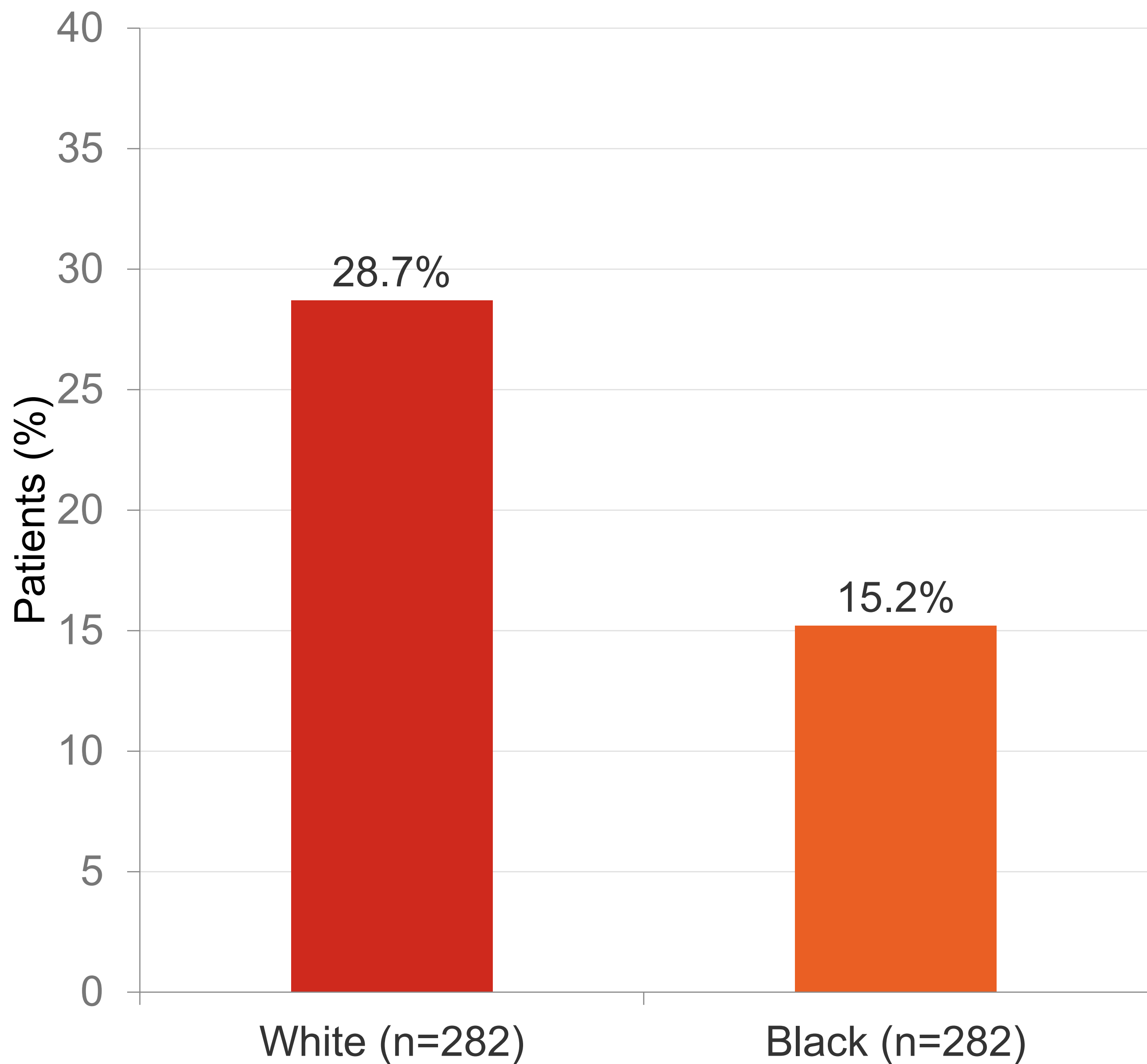
CONCLUSIONS

Despite comparable short- and long-term mortality after propensity matching, non-Hispanic Black patients with NPM1-mutated AML experienced significantly lower stem cell transplant utilization and higher rates of sepsis and ICU admission.

RESULTS



A. 1-Year Survival — Hispanic vs Non-Hispanic (log-rank p=0.06)



B. Stem Cell Transplant — White vs Black (p<0.001)

Outcome	White (n=396)	Black (n=396)	p-value	Significance
30-day mortality	6.3%	4.5%	0.269	NS
60-day mortality	8.6%	7.3%	0.505	NS
1-year mortality	23.0%	26.0%	0.331	NS
Stem cell transplant	40.4%	17.4%	<0.001	White higher
Sepsis	30.1%	38.9%	0.009	Black higher
ICU admission	23.5%	30.3%	0.030	Black higher
Pneumonia	30.8%	34.3%	0.288	NS
Neutropenic fever	52.5%	58.1%	0.116	NS