DEI Data x Patient Experience Project

Methodology

Data was sourced from Sandbox_Oracle Analytics Cloud: <V_PTSAT_SURVEYRESPONSES_PG_ALLDATA> on 12.22.2023

Filters:

RECDATE: 10/1/2022-9/30/2023

SERVICE: Outpatient Oncology (ON)

QUESTION_TEXT_LATEST	VARNAME
Care providers' efforts to include you in decisions about your treatment	CP23
Care providers' discussion of your treatment options	DCP5
Staff's sensitivity to the difficulties that your condition and treatment can cause	I3
Efforts to include you in decisions about your treatment	I4
Caring manner of the nurses	MED23
Nurses answer to your questions	MED24
How well the care providers kept you informed about your condition	MED3
Care providers' concern for your questions and worries	MED5
Your trust in the skill of the care providers	MED6
How well the staff worked together to care for you	O1
Likelihood of your recommending this facility to others	O3

Variable Names:

SERVICE, SURVEY_ID, MRN, RECDATE, DISDATE, AGE, SEX, RACE, ETHNICITY, LANGUAGE, PAYOR, PG_UNIT, QUESTION_TEXT_LATEST, VALUE

Save as <DEI_data.csv>

DEI_data.csv

DATA ANALYSIS

Software: R version 4.2.2 (2022-10-31 ucrt) -- "Innocent and Trusting"
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Platform: x86_64-w64-mingw32/x64 (64-bit)

Step 1. Cleaning

Create four new grouping variables: Payor2, Race_Ethnicity, TopBox, Age_Group

PAYOR2	AGE_GROUP	RACE_ETHNICITY
HMOPPO	15-24 yrs old	Hispanic
OTHINS	25-34 yrs old	White (Non-Hispanic)
MEDICAID	35-44 yrs old	Black/African-American
MEDICARE	45-54 yrs old	More than one Race/Other
CHARITY	55-64 yrs old	Asian
OTHER	65-74 yrs old	Missing
UNKNOWN	75-84 yrs old	
SELFPAY	85+ yrs old	

If Ethnicity is answered as Spanish;Hispanic then R/E=Hispanic, regardless of how they answer Race
If Ethnicity is answered as anything else then R/E will be the patient's race response
Examples:

Missing - Black → Black
Missing - Missing → Missing
Non-Spanish; non-Hispanic - American Indian → More than one race/Other
Non-Spanish; non-Hispanic - White → White
Non-Spanish; non-Hispanic - Missing → Missing
Spanish; Hispanic - White → Hispanic
Unknown/Other - Native Hawaiian/PI → More than one race/Other
Prefer not to answer Asian → Asian
Prefer not to answer - Prefer not to answer → Missing

(per Jenna Stephens email 9/21/2023)

Payor categories finalized by Terry Payton (**emails 10/24/2023 & 5/11/2023)**

Data Grouping Categories.xlsx

After running statistics on the simple logistic models, removed payor=Unknown and gender = Missing rows.

Step 2. Run Models

The data was subset by question, reference categories were set, and logistic mixed effects models were run to record p-values. Odds ratios and 95% confidence intervals were calculated, and finally, forest plots were created to visualize the results. (R Script)