Does the Race/Ethnicity or Gender of a Physician’s Name Impact Patient Selection of the Physician?

Jessica Greene, Ph.D., Judith H. Hibbard, Dr. P.H., Rebecca M. Sacks, M.P.H.

Abstract: This study’s objective was to examine the extent to which individuals exhibit a preference for physicians based upon the race/ethnicity and gender of a physician’s name. We conducted an online survey of 915 adults, who viewed a comparative display of four physicians’ quality performance. We randomized the name of one physician, whose quality performance was equal to that of one physician and better than two other physicians, to be either typically African American male, African American female, white male, white female, or Middle Eastern (gender ambiguous). In regression models, participants more frequently selected the physician with the randomized name when displayed with a white male name, compared to when presented with an African American male, African American female, or Middle Eastern name (ORs ranging from .59 to .64). White and male study participants exhibited this pattern, while racial/ethnic minority participants did not. If the hypothetical choice bias observed here translates to people’s actual selection of physicians, it could be a contributing factor for why women and racial/ethnic minority physicians have lower incomes than white male physicians.

Keywords: Implicit bias, Racial discrimination, Consumer choice, Physician, race/ethnicity

METHODS

We used an online experiment, in which study participants were asked to make a hypothetical choice among four physicians after viewing comparative quality information for each physician on eight metrics (Figure 1). Two physicians in the comparative display had top performance on 7 of the 8 quality metrics (and average quality on an eighth metric), while the other two physicians had lower quality performance. We randomized one of the two top-performing physicians to have one of five names that differed by race/ethnicity and gender (column 2). The key research question was whether the race/ethnicity and gender of the randomized physician’s name influenced the likelihood that study participants selected the physician.

The physician’s name was either typically African American male (Dr. Tyrone Williams), African American female (Dr. Jasmin Williams), white male (Dr. Jack Williams), white female (Dr. Holly Williams), or Middle Eastern (Dr. Raja Fakraddin), without an identifiable gender. Four of the first names came from a list of distinctively African American and white names derived from California birth certificates. The last name “Williams”, which was used for the typically African American and white names, was the third most common surname in the United States in 2000.
and was the only popular surname name that was equally popular among whites and African Americans.\textsuperscript{10} For the Middle Eastern name, we combined the names of two Trump delegates in Illinois who received fewer votes than expected given the number received by Trump, likely because of their foreign-sounding names.\textsuperscript{9} The other top physician’s first name, Brian, was a male name commonly used across racial and ethnic groups, with a last name of English descent (Abbot).\textsuperscript{11}

A convenience sample of adults under 65 years of age ($n = 915$) from across the United States was recruited from Qualtrics’ online panel in the spring of 2016. Study participants were asked to select a physician based upon viewing the eight quality ratings, assuming the four physicians accepted their insurance. Our key dependent variable was selection of the physician with the randomized name, who was one of the two top performing physicians.

We conducted bivariate and multivariate analyses examining selection of the physician with the randomized name versus the other three doctors, based upon the race/ethnicity and gender of the physician’s name displayed. The logistic regression models controlled for respondent demographic characteristics (gender, race/ethnicity, age, and education level) and health status (self-reported health status and self-report of chronic condition). Analyses were stratified by respondent race/ethnicity (white or a racial/ethnic minority) and by gender. Unfortunately we did not have adequate sample sizes to examine responses separately for African American, Hispanic, or Asian study participants.

### RESULTS

Compared with the population of 18—64 year olds in the United States, the study sample was disproportionately white (non-Hispanic) (73% versus 62% for the U.S.) and female (59% versus 50% for the U.S.) (Appendix).\textsuperscript{14} African Americans made up 9% of the sample, Hispanics 6%, and Asians 5%. Respondents were slightly more educated than US adults aged 18—64 nationally (35% had a high school degree or less schooling compared to 40% in the Current Population Survey) and were in slightly poorer health.\textsuperscript{15,16}

Overall, 39% of the sample selected the physician with the randomized name (not shown). We did not observe a significant bivariate relationship between the randomized physicians’ name and selection of the randomized physician for the full sample (Table 1). Though, when the randomized physician had a typically white male name, the physician was chosen 7—12 percentage points more frequently than when the physician was displayed with the other names.

Among white respondents, the preference for the physician when displayed with a typically white male

\begin{table}
\centering
\begin{tabular}{|l|c|c|c|}
\hline
 & Dr. Eric Ramsey & Dr. Tyrone Williams & Dr. Stacy Fried & Dr. Brian Abbot \\
\hline
Effective & Safe Care & & & \\
\hline
Patients receive recommended care and practice has safeguards to protect patients from medical errors & ⭐⭐ & ⭐⭐ & ⭐⭐ & ⭐⭐ \\
\hline
Treats chronic illness using best practices & ⭐⭐⭐ & ⭐⭐⭐ & ⭐⭐⭐ & ⭐⭐⭐ \\
\hline
Screens for cancer using best practices & ⭐⭐⭐ & ⭐⭐⭐ & ⭐⭐⭐ & ⭐⭐⭐ \\
\hline
Uses systems to prevent medication errors & ⭐⭐⭐ & ⭐⭐⭐ & ⭐⭐⭐ & ⭐⭐⭐ \\
\hline
Uses systems to track all lab results & ⭐⭐⭐ & ⭐⭐⭐ & ⭐⭐⭐ & ⭐⭐⭐ \\
\hline
Patient Survey Results & & & & \\
\hline
What patients say about the doctor & & & & \\
\hline
How Well Doctor Communicates & & & & \\
Getting Care When Needed & & & & \\
Patients Rating of Doctor & & & & \\
Courteous and Helpful Office Staff & & & & \\
\hline
\end{tabular}
\caption{Example of the comparative display of physicians. Note: The name in the second column was randomly assigned to be typically African American male (Dr. Tyrone Williams) or female (Dr. Jasmin Williams), typically white male (Dr. Jack Williams) or female (Dr. Holly Williams), or Middle Eastern (Dr. Raja Fakraddin).}
\end{table}
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