Supplemental Online Content

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eTable. Odds of Speech Therapy Receipt by Child Race/Ethnicity and Insurance Type

This supplemental material has been provided by the authors to give readers additional information about their work.
## Odds of Speech Therapy Receipt by Child Race/Ethnicity and Insurance Type

| Odds ratios with White reference category | OR  | 95% CI (lower bound) | 95% CI (upper bound) |
|------------------------------------------|-----|----------------------|----------------------|
| **Race/ethnicity (reference: White)**    |     |                      |                      |
| Asian                                    | 1.03| 0.93                 | 1.14                 |
| Black                                    | 0.84| 0.75                 | 0.94                 |
| Hispanic                                 | 0.80| 0.75                 | 0.85                 |
| Multiple                                 | 1.11| 0.84                 | 1.49                 |
| Native American/Alaskan                  | 1.00| 0.55                 | 1.98                 |
| Other                                    | 0.89| 0.79                 | 1.02                 |
| Pacific Islander                         | 0.74| 0.55                 | 1.03                 |
| **Insurance type (reference: Commercial)**|     |                      |                      |
| Commercial and Medicaid                  | 1.47| 1.02                 | 2.21                 |
| Medicaid                                 | 1.22| 1.07                 | 1.38                 |
| None                                     | 0.39| 0.35                 | 0.43                 |
| **Interactions**                         |     |                      |                      |
| **Race/ethnicity * Commercial and Medicaid** |     |                      |                      |
| Asian*Commercial and Medicaid            | 0.99| 0.51                 | 2.01                 |
| Black*Commercial and Medicaid            | 0.59| 0.33                 | 1.07                 |
| Hispanic*Commercial and Medicaid         | 0.80| 0.51                 | 1.21                 |
| Multiple*Commercial and Medicaid         | >100.0| 8.46            | NA                   |
| Native American/Alaskan*Commercial and Medicaid | NA | NA | NA |
| Other*Commercial and Medicaid            | 1.28| 0.33                 | 8.40                 |
| Pacific Islander*Commercial and Medicaid | 0.12| 0.00                 | 3.17                 |
| **Race/ethnicity * Medicaid**            |     |                      |                      |
| Asian*Medicaid                           | 1.12| 0.86                 | 1.47                 |
| Black*Medicaid                           | 0.77| 0.63                 | 0.94                 |
| Hispanic*Medicaid                        | 1.09| 0.95                 | 1.25                 |
| Multiple*Medicaid                        | 0.83| 0.45                 | 1.61                 |
| Native American/Alaskan*Medicaid         | 1.30| 0.37                 | 6.13                 |
| Other*Medicaid                           | 0.62| 0.44                 | 0.87                 |
| Pacific Islander*Medicaid                | 1.50| 0.67                 | 3.85                 |
| **Race/ethnicity * None**                |     |                      |                      |
| Asian*None                               | 0.67| 0.55                 | 0.82                 |
| Black*None                               | 0.73| 0.53                 | 0.99                 |
| Hispanic*None                            | 0.88| 0.76                 | 1.02                 |
| Multiple*None                            | 0.91| 0.49                 | 1.73                 |
| Native American/Alaskan*None             | 0.51| 0.14                 | 1.74                 |
| Other*None                               | 1.00| 0.76                 | 1.32                 |
| Pacific Islander*None                    | 0.80| 0.32                 | 2.10                 |

Notes: Multiple logistic regression model estimating odds of receipt of speech therapy after referral by race/ethnicity reference category. The model is adjusted for age, gender, primary referring diagnosis, and multiple disabilities, delays, and/or autism spectrum disorder from 2017 to 2020.
| Odds ratios with Hispanic as reference category | OR  | 95% CI (lower bound) | 95% CI (upper bound) |
|-----------------------------------------------|-----|----------------------|----------------------|
| **Race/ethnicity (reference: Hispanic)**        |     |                      |                      |
| Asian                                         | 1.29| 1.18                 | 1.41                 |
| Black                                         | 1.05| 0.94                 | 1.17                 |
| Multiple                                      | 1.39| 1.06                 | 1.86                 |
| Native American/Alaskan                       | 1.25| 0.69                 | 2.48                 |
| Other                                         | 1.12| 0.99                 | 1.27                 |
| Pacific Islander                              | 0.93| 0.68                 | 1.28                 |
| White                                         | 1.25| 1.17                 | 1.34                 |
| **Insurance type (reference: Commercial)**     |     |                      |                      |
| Commercial and Medicaid                       | 1.17| 0.97                 | 1.42                 |
| Medicaid                                      | 1.33| 1.25                 | 1.41                 |
| None                                          | 0.34| 0.31                 | 0.37                 |
| **Interactions**                              |     |                      |                      |
| **Race/ethnicity*Commercial and Medicaid**    |     |                      |                      |
| Asian*Commercial and Medicaid                 | 1.24| 0.71                 | 2.34                 |
| Black*Commercial and Medicaid                 | 0.75| 0.47                 | 1.23                 |
| Multiple*Commercial and Medicaid              | >100.0| 6.92               | NA                   |
| Native American/Alaskan*Commercial and Medicaid| NA  | NA                   | NA                   |
| Other*Commercial and Medicaid                 | 1.60| 0.44                 | 10.31                |
| Pacific Islander*Commercial and Medicaid      | 0.15| 0.01                 | 3.93                 |
| White*Commercial and Medicaid                 | 1.26| 0.83                 | 1.96                 |
| **Race/ethnicity*Medicaid**                   |     |                      |                      |
| Asian*Medicaid                                | 1.03| 0.81                 | 1.32                 |
| Black*Medicaid                                | 0.70| 0.59                 | 0.83                 |
| Multiple*Medicaid                             | 0.76| 0.41                 | 1.46                 |
| Native American/Alaskan*Medicaid               | 1.19| 0.34                 | 5.61                 |
| Other*Medicaid                                | 0.57| 0.42                 | 0.79                 |
| Pacific Islander*Medicaid                     | 1.37| 0.62                 | 3.51                 |
| White*Medicaid                                | 0.92| 0.80                 | 1.06                 |
| **Race/ethnicity*None**                       |     |                      |                      |
| Asian*None                                     | 0.76| 0.63                 | 0.93                 |
| Black*None                                     | 0.82| 0.61                 | 1.12                 |
| Multiple*None                                  | 1.03| 0.56                 | 1.95                 |
| Native American/Alaskan*None                   | 0.58| 0.16                 | 1.97                 |
| Other*None                                     | 1.13| 0.86                 | 1.49                 |
| Pacific Islander*None                          | 0.91| 0.36                 | 2.38                 |
| White*None                                     | 1.13| 0.98                 | 1.31                 |

Notes. Multiple logistic regression model estimating odds of receipt of speech therapy after referral by race/ethnicity, showing odds ratios with White as the reference category versus Hispanic as the reference category. The model is are adjusted for age, gender, primary referring diagnosis, and multiple referrals. N=66402 referrals of children ages 0 to 26 for speech therapy for developmental disabilities, delays, and/or autism spectrum disorder from 2017 to 2020.

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