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Obstetric Outcomes Assessment for New Mainers

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Obstetric Outcomes Assessment for New Mainers

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Introduction

- 13% of Portland's population in 2019 was recent immigrants
- Numbers have increased, with >350 asylum-seeking families (1500 individuals) in 2022 in Portland alone
- Maine Medical Center (MMC) provides obstetrical care for more newly arrived, non-English speaking patients
- Total deliveries in 2020, 2021 (6192) broke records at MMC
- New Mainers at Increased risk for health disparities due to: language barriers, low socioeconomic status and stressors from a history of trauma

Hypothesis

- Non-English speaking labor and delivery patients will have a higher C-section risk than English-speaking patients.

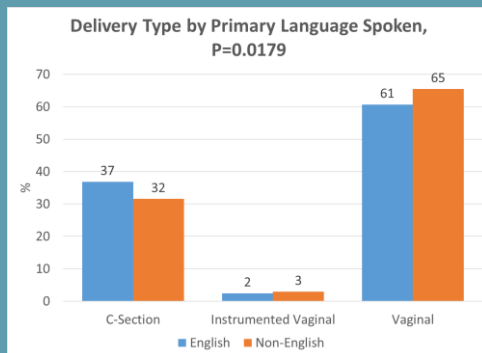
Methods

- Retrospective data collection and analysis of all delivering patients at Maine Medical Center in 2020-2021
- Conducted descriptive analysis of demographics and clinical characteristics
- Final analysis with Chi-Square testing, t-tests, and logistic regression

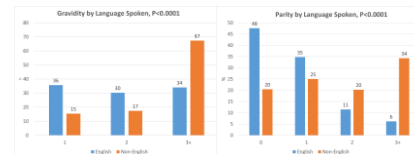
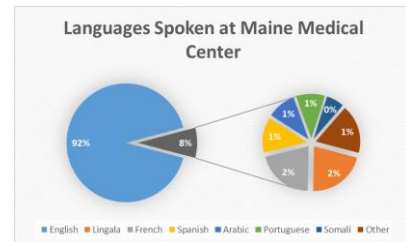
Results:

- SIGNIFICANT DIFFERENCE IN CRUDE and Adjusted C-SECTION RISK BY LANGUAGE SPOKEN**
 - Unadjusted OR = 0.79, Adjusted OR = 0.69
- Non-English speakers with significant DIFFERENCES in C/S RISK $p < 0.0001$:
 - Higher Gravidity, Higher Parity
 - Higher percentage Medicaid insurance coverage
 - Older age at delivery
- Medicaid or Governmental insurance was found to be associated with C-section (OR 1.37, 1.70, respectively)

Patients who are
non-English-speaking
were significantly
less likely to deliver
their baby by
C-section at MMC
2020-2021



Graphs and Figures



Conclusion:

- Non-English-Speaking patients had a lower C-section risk than English-speaking
- Significant differences present in Non-English speakers, including gravidity, parity, insurance coverage, and age