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Assessment of Obstetric Outcomes Graphs and Figures for New Mainers

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Assessment of Obstetric Outcomes for New Mainers

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Introduction

- 4% of Maine's population in 2018 was recent immigrants
- Maine Medical Center provides obstetrical care for more newly arrived, non-English speaking patients
- 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 rate than English-speaking patients.

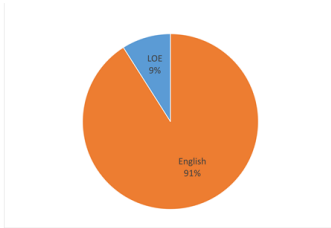
Methods

- Retrospective data collection and analysis of all delivering patients at Maine Medical Center in 2018-2019
- Conducted descriptive analysis of demographics and clinical characteristics
- Final analysis with Chi-Square testing, t-tests, and logistic regression

Results

Languages

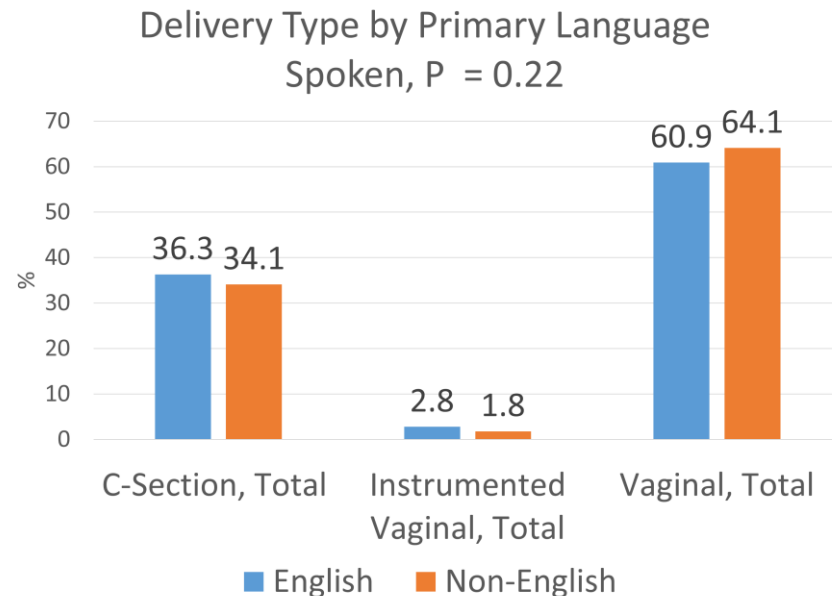
English
French
Arabic
Somali
Lingala
Portuguese
Spanish
Kinyarwanda
Vietnamese
Chinese (Mandarin, Other, Cantonese)
Swahili; Kiswahili



Discussion

- NO DIFFERENCE IN CRUDE C-SECTION RATE BY LANGUAGE
- POPULATION DIFFERENCES with Non-English speakers
 - Higher Gravidity and Parity
 - Higher percentage Medicaid insurance coverage
 - Older age at delivery (all $p < 0.0001$)
- C-section rates higher with increasing Gravidity
- C-section rates lower with increasing Parity
- Medicaid or Governmental insurance was found to be associated with C-section
- ADJUSTED ANALYSIS - no difference in C-section rate controlling for population differences

C-section rate is not different between English and non-English-speaking patients at MMC



Graphs and Figures

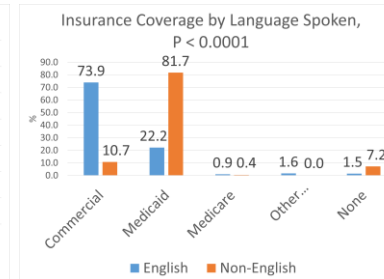
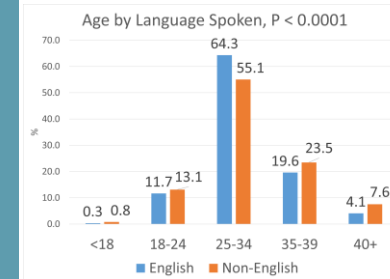
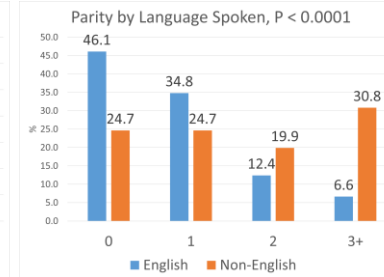
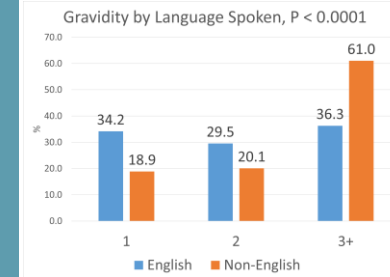


Table 3: Odds of C-section by English language, both unadjusted and adjusted analyses.				
			Odds of C-section	
			OR	95% CI
Model #1: Unadjusted	Language	English	1.0	reference
		Non-English	0.91	(0.75, 1.10)
Model #2: Adjusted	Language	English	1.0	reference
		Non-English	0.82	(0.66, 1.01)
	Age at Delivery (per year)		1.04	(1.03, 1.06)
	Gravidity	1	1.0	reference
		2	1.13	(0.93, 1.36)
		3+	1.37	(1.10, 1.71)
	Parity	0	1.0	reference
		1	0.77	(0.64, 0.92)
		2	0.70	(0.55, 0.90)
		3+	0.65	(0.49, 0.86)
	Insurance	Commercial	1.0	reference
		Medicaid	1.29	(1.11, 1.49)
		Medicare/Other Govt	1.57	(1.10, 2.24)
		None	0.70	(0.44, 1.09)