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Objective

- To analyze the association of non-English primary language (NEPL) with patient decision quality regarding mode of delivery after cesarean .

Study Design

- Secondary analysis of a multicenter randomized trial of pregnant people with one prior cesarean and no prior VBAC between 2016-2019.
- Randomized at <25 weeks' gestation: usual care vs tablet-based decision support tool focused on TOLAC choice before deciding on a mode of delivery.
- Primary outcome: decision quality (measured using validated scales that assess knowledge, decisional conflict, shared decision-making, decision self-efficacy, and decision satisfaction, administered by phone at 34-37 weeks' gestation).
- Primary predictor: Participant reported primary language (English vs other)
- To assess the association of non-English primary language with decision quality, we calculated mean scores for each scale by level of health literacy (limited vs adequate) and estimated adjusted mean differences (aMD) using linear regression.
- Model covariates were selected by backwards stepwise regression.

Results

- 1285 participants (n=255 NEPL and n=1043 English) were included
- Non-English primary language was associated with significantly higher scores of decisional conflict and significantly lower scores of decision self-efficacy and decision satisfaction.
- Measures of knowledge and shared decision-making were similar between those with NEPL and English primary language (p>0.05).

Conclusion

- In the context of decision making regarding TOLAC, NEPL participants had lower decision quality scores compared to those who primarily used English.
- Given the association of NEPL with lower participation in decision-making and poorer health outcomes, research is needed to understand the experience of NEPL people and improve counseling to mitigate disparities.

Among those with **non-English primary language**, the decision regarding whether to undertake TOLAC was characterized by **lower measures of decision quality** but **similar measures of knowledge** about TOLAC.



Questions?

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Table 1. Baseline participant characteristics presented by primary language

Characteristics	Non-English Primary Language (n=255)	English Primary Language (n=1043)	p-value
Age, mean (SD), y	32.66 (4.95)	34.41 (4.37)	<0.001
Race or ethnic group			<0.001
African American or Black	16 (16.3%)	82 (83.7%)	
Asian or Pacific Islander	40 (21.7%)	144 (78.3%)	
Caucasian, White or European American	54 (7.5%)	662 (92.4%)	
Latina, Latin American, or Hispanic	129 (56.1%)	101 (43.9%)	
Multi- or bi-racial/ethnic	5 (12.5%)	35 (87.5%)	
Other	11 (36.7%)	19 (63.3%)	
Limited health literacy	164 (45.7%)	195 (54.3%)	<0.001
Opted for Spanish language interview	99 (92.5%)	8 (7.5%)	<0.001
Educational attainment			<0.001
Less than a high school degree	33 (78.6%)	9 (21.4%)	
High school graduate, GED or equivalent	47 (49.0%)	49 (51.0%)	
Some college, junior college, vocational school	36 (24.3%)	112 (76.7%)	
College graduate (BA, BS)	66 (13.7%)	416 (86.3%)	
Professional or graduate degree	73 (13.8%)	457 (86.2%)	
Relationship status			<0.001
Married or living with partner	225 (18.8%)	975 (81.3%)	
Partnered, not living together	11 (25.0%)	33 (75.0%)	
Single/not significantly involved	12 (29.3%)	29 (70.7%)	
Yearly household income			<0.001
Under \$25,000	48 (52.8%)	43 (47.3%)	
\$25,000 - \$50,000	46 (39.3%)	71 (60.7%)	
\$50,001 - \$100,000	35 (20.8%)	133 (79.2%)	
\$100,001 - \$200,000	50 (12.9%)	338 (87.1%)	
Over \$200,000	42 (9.1%)	421 (90.9%)	
Don't know	21 (47.7%)	23 (52.3%)	
Decline to answer	6 (46.2%)	7 (53.9%)	
Insurance			<0.001
Private insurance	131 (12.6%)	906 (87.4%)	
Public insurance	113 (47.3%)	126 (52.7%)	
Other, specify	4 (50.0%)	4 (50.0%)	
Prior vaginal delivery	20 (26.7%)	55 (73.3%)	0.092

Table 2. Participant-Reported Decision Quality Outcomes

Outcomes	Mean (SD) [No.]		Adjusted mean difference (95% CI)	p-value
	Non-English Primary Language (n=255)	English Primary Language (n=1043)		
Knowledge	4.27 (1.96) [222]	5.19 (1.61) [965]	0.01 (-0.25, 0.27)	0.956
Decisional conflict	20.94 (13.11) [218]	16.72 (13.46) [961]	4.12 (1.87, 6.36)	<0.001
Uncertainty subscale	26.89 (20.36) [220]	24.43 (22.10) [965]	4.53 (0.98, 8.08)	0.012
Informed subscale	17.35 (12.60) [220]	13.06 (13.02) [965]	2.78 (0.59, 4.98)	0.013
Values clarity subscale	21.14 (16.13) [220]	16.57 (15.67) [963]	3.66 (0.99, 6.34)	0.007
Support subscale	18.14 (15.71) [220]	11.91 (15.23) [964]	5.64 (3.04, 8.25)	<0.001
Effective decision subscale	27.93 (20.38) [219]	23.23 (20.50) [962]	4.70 (1.27, 8.12)	0.007
Shared decision-making	75.01 (13.31) [216]	74.44 (15.77) [954]	-1.06 (-3.66, 1.55)	0.426
Decision self-efficacy	88.57 (12.34) [218]	90.91 (12.02) [957]	-3.85 (-5.93, -1.76)	<0.001
Decision satisfaction	4.63 (0.57) [221]	4.67 (0.49) [963]	-0.10 (-0.18, -0.02)	0.019