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Tdap Vaccination Acceptance among Pregnant Hispanic Women: English versus Spanish Speakers

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Inclusion

Criteria

ABSTRACT

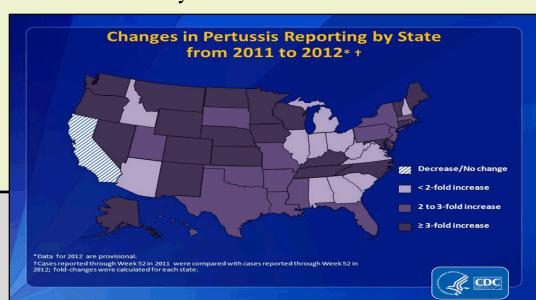
- **♦ Background:** The tetanus, diphtheria and acellular pertussis vaccine (Tdap) for pregnant women was recommended by the Advisory Committee on Immunization Practices (ACIP) in 2012 to reduce pertussis morbidity and mortality in infants. The objective of the proposed capstone study was to compare preferred English-speaking with non-English preferred speaking Hispanic women and their decision to accept or reject third-trimester Tdap vaccination.
- ♦ **Method:** Using the electronic medical record, a retrospective review was be conducted to evaluate patient decisions about the Tdap vaccination among 182 to 400 Hispanic women who received prenatal care between 27 and 36 weeks in a large southwestern public health care system starting in June 1, 2013 through December 2, 2013.
- **♦ Results:** After exploring any potential relationships of covariates to the dependent variable, logistic regression was used to explore the effect of the ability to communicate in English on the decision to accept Tdap vaccination during pregnancy. Of all the predictor variables, only education level and number of total clinic visits were significant predictors. This indicates that as the level of education increases, the likelihood of accepting the Tdap vaccine increases. In addition, the more total number of clinic visits, the likelihood of accepting the Tdap vaccine also increases. The independent variable Language however, was not a significant predictor of accepting Tdap vaccination (p = .785). However, the model overall, was statistically significant, $\chi^2(7) = 40.22$, p < .001, but with a relatively low predictive power, Nagelkerke R2 = .163.

INTRODUCTION

Pertussis (whooping cough)

- ♦ Caused by Bordetella Pertussis ♦ Highly contagious respiratory
- ♦ Cause of infant mortality and morbidity

tract infection.



Pertussis Cases

2012 ACIP Tdap **Vaccination Guideline**

Factors Influencing Health Decisions

UNDERPINNINGS

- ♦ Administer Tdap vaccine during 3rd trimester of pregnancy
- ♦ Administer postpartum (if not taken during pregnancy)
- ♦ Cocooning
- Limited English Proficiency
- Culture
- 3. Health Literacy
- ♦ Healthy People 2020 Objective 11D-1.6
- ♦ CDC, ACIP Guideline
- ♦ Title VI of Civil Rights Act of
- ♦ The Joint Commission National Goal

PURPOSE

♦ To explore if language barriers in a population of Hispanic women who do not prefer English affect their decisions to receive or not receive Tdap vaccinations during the 3rd trimester of pregnancy.

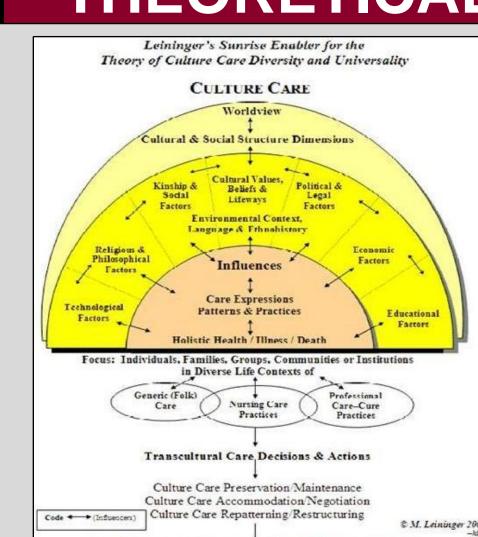
RESEARCH QUESTION

♦ There will be a significant difference in Tdap vaccination acceptance during the 3rd trimester of pregnancy among Hispanic women who prefer and who do not prefer to communicate in English.

HYPOTHESIS

♦ Does the preference to communicate in English affect the decision of Hispanic women in large healthcare system in the Southwestern United States to accept Tdap vaccination during the 3rd trimester of pregnancy?

THEORETICAL FRAMEWORK



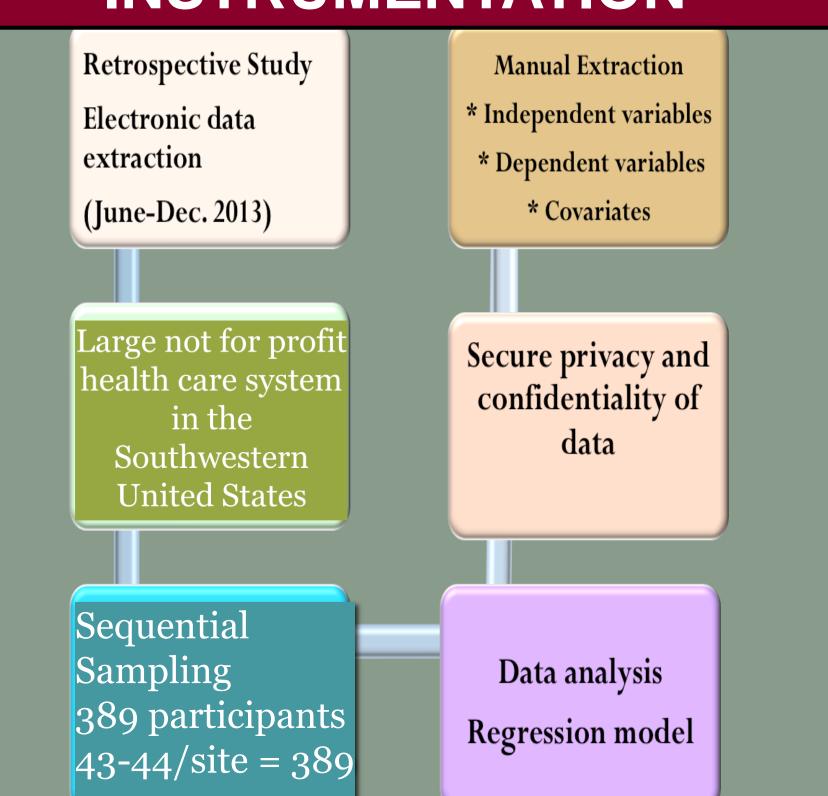
♦ To improve and advance quality of care through creative use of transcultural nursing knowledge. **♦ Sunrise Enabler** explains acquisition of transcultural knowledge by means of examining social structure, worldview, cultural values, language, environmental

REVIEW OF LITERATURE

Criteria

- ♦ Significance and safety of Tdap vaccination during pregnancy
- **♦** Barriers to vaccination: Limited English Proficiency (LEP); cultural beliefs

INSTRUMENTATION



POPULATION & SAMPLE

♦ Pregnant client who received prenatal care between 27 and 36 weeks at large healthcare system in the Southwestern United States.

- ♦ Self-identify as Hispanic.
- ♦ Selected Spanish or English as preferred language to discuss healthcare.

Exclusion Criteria

- ♦ Does not identify as Hispanic.
- \Leftrightarrow < 27 wks. EGA; > 36 wks. EGA.
- ♦ No health visit in electronic health records (EHR) during 3rd trimester of pregnancy.

PROJECT OBJECTIVES

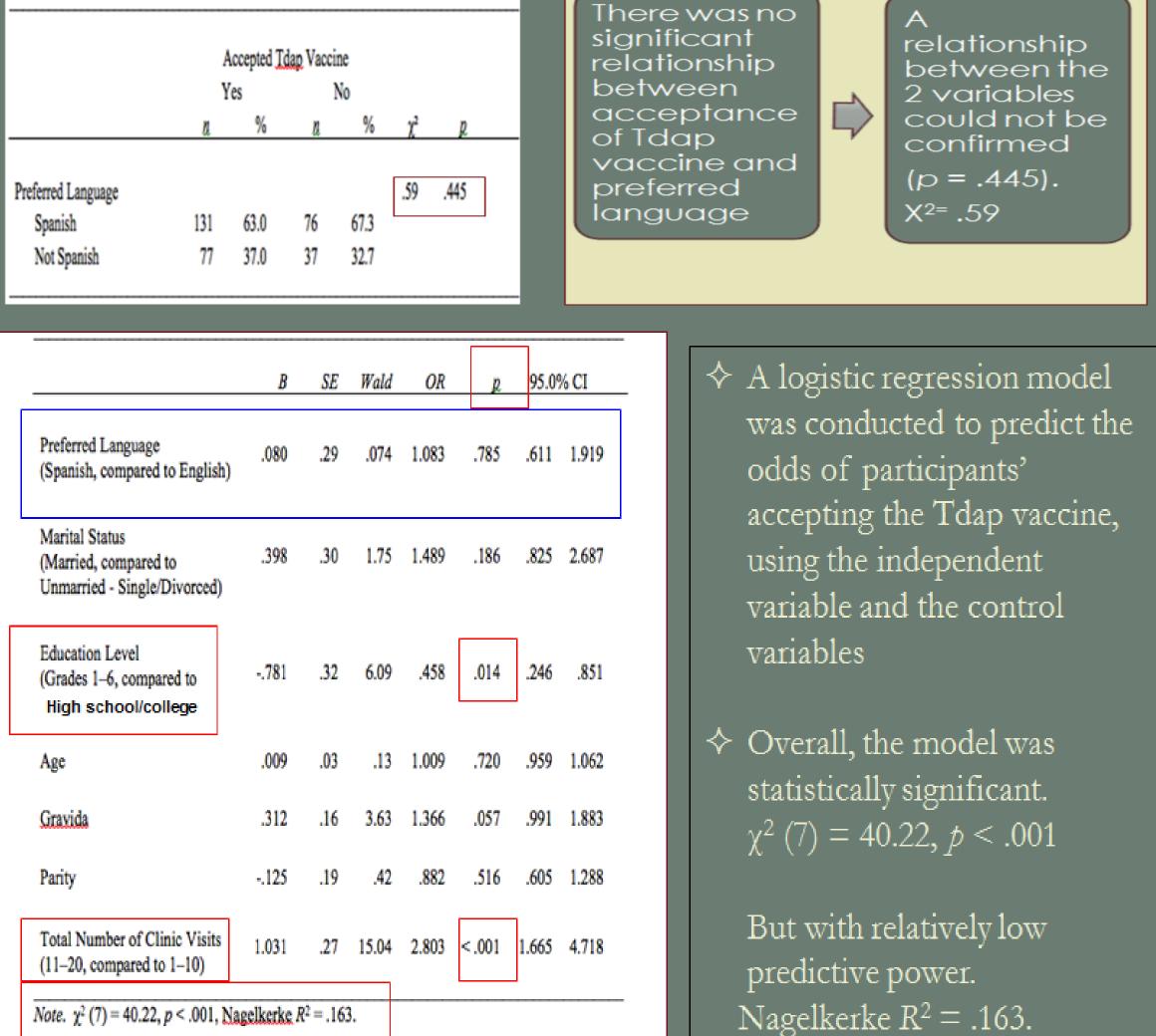
Compare English preferred-speaking with non- English- preferred speaking Hispanic women in their decision to accept or reject 3rd trimester Tdap vaccinations.

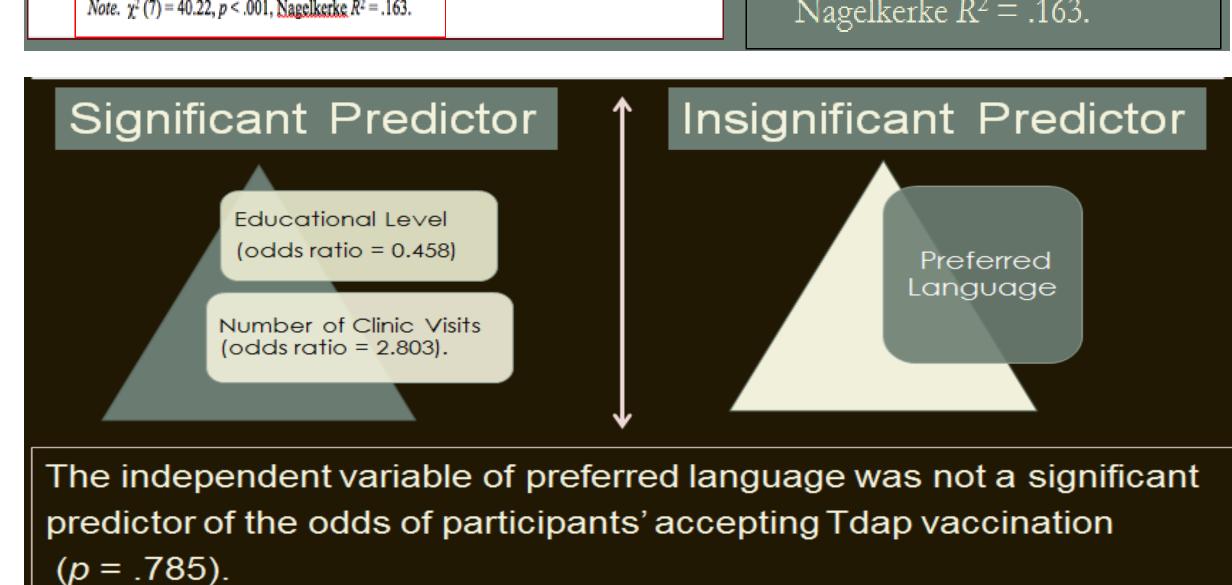
♦ Results will guide health providers as they strive to implement evidence-based care to pregnant populations.

Frequencies and Percentages for Preferred Language by Accepted Tdap Vaccine

EVALUATION

Relationship between Independent and Dependent Variable





DISCUSSION

♦ Validates Leininger's Transcultural Nursing Theory.

Conceptual Framework

- Language preference alone cannot predict dimensions of human care behavior. Other variables such historical, social, and cultural context should be considered to have a better understanding of the holistic behavior of a person.
- To improve and advance quality of care through creative use of transcultural nursing knowledge.
- Sunrise Enabler explains acquisition of transcultural knowledge by means of examining social structure, worldview, cultural values, language, environmental context.

DELIVERABLES



Highlights the need for effective patient-provider communication egardless of client's preferred

Study provides data which suggests need for educating health care providers about thei responsibility to offer Tdap in 3rd

Data will be used to raise the awareness of health care system eaders that the Electronic Healt Record should be updated to foster Tdap compliance.

RECOMMENDATIONS

Improve counseling strategies to increase Tdap vaccine acceptance.

Providers should increase compliance in offering Tdap vaccination.

Recommendations

Increase onsite interpreters to improve effective health communication.

Improve the EHR Tdap Best Practice Advisory (BPA) by adding a flow summary in order to encourage provider compliance.

FUTURE RESEARCH

spective research to identify effectiveness of Tdap vaccination by comparing the rate of infant pertussis case prior to and after nplementation of the vaccination protocol

Future research should include cultural beliefs, insurance status, underestimation of personal risk, and misunderstanding of vaccination risk, and mistrust toward the healthcare system.

More research needed to explore reasons why providers did not

Future studies should explore the topic of Tdap vaccination

acceptance in pregnancy across an array of ethnicities

offer Tdap vaccination to pregnant women

CONCLUSION

In conclusion, although this study did not suggest a relationship between preferred language and Tdap compliance, it does suggest that much more research is needed regarding how to better serve our client population. Health providers should continuously seek culturally and linguistically appropriate evidence-based strategies to meet the needs of pregnant women in Hispanic and other ethnic groups who have LEP and low health literacy.



References