

# Preventing Bacterial Pneumonia in a Viral Pandemic

Nguyen, T., Shi, Y., Korman, H., Ali, F., Estacio, A., Tran, M., Vargas, N., Pemberton, B., Wood, R.

University of Texas Health at San Antonio Family and Community Medicine Residency Program



## BACKGROUND

- Pneumococcal disease place an enormous burden on the health care system every year.
- Vaccination is a crucial measure in reducing morbidity and mortality from pneumococcal illness.
- Currently, evidence is inconclusive regarding the relationship between COVID 19 and bacterial pneumonia.



## RESULTS

- 42/43 Family medicine residents responded



## CONCLUSIONS

- Data collection is still in process.
- The Covid-19 pandemic has had widespread impact on patients as well as providers
- Vaccination is one way to reduce the risk to our patients during a pandemic.



## METHODS



- Presurvey:** Family Medicine residents complete questionnaire covering their current knowledge and attitudes toward pneumococcal vaccination.
- Card Study:** Each resident is instructed to review their clinic patients to find those who qualify for PCV vaccination and complete a card on those patients.
- At the end of study period,** data collected will be analyzed to determine the impact of PCP guidance on PCV vaccination.
- Postsurvey:** FM residents complete additional questionnaire to assess for changes in attitude or knowledge on PCV vaccine.



## Willingness to give a pneumococcal vaccine during the pandemic



How has the Covid-19 pandemic affected your willingness to recommend the pneumococcal vaccine?	Sample answers
<b>More willing</b>	"I would like my patients to be protected and prevent possible complications of certain disease."
<b>No effect</b>	"It is still important."
<b>Less willing</b>	"There are less in person visits and what they do in person there has been a lot of other things to 'bitch' about lately."

## CONTACT INFORMATION

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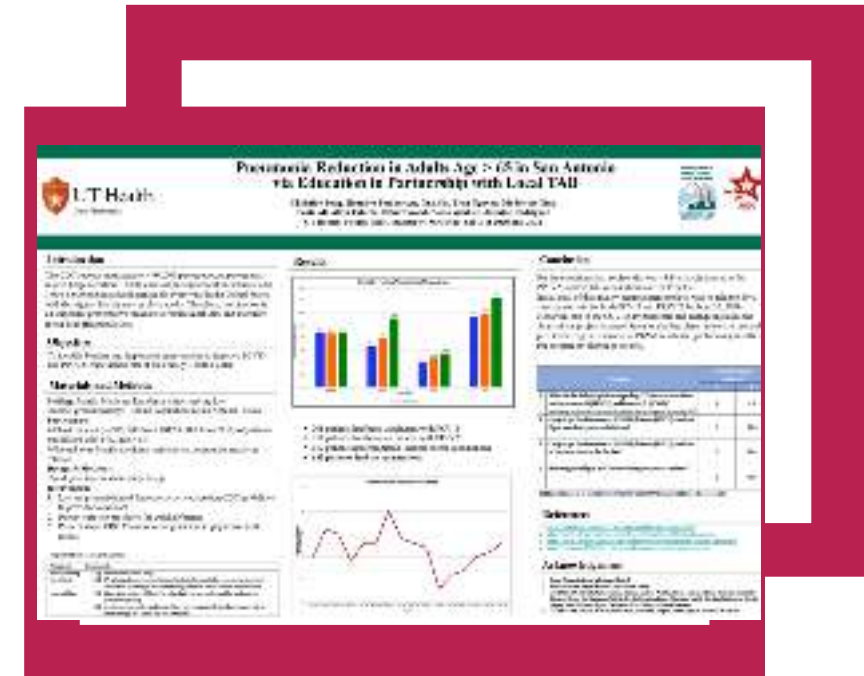


Special thanks to the Bexar County Advisory Board and AHEC for continued support.



# BACKGROUND

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# METHODS

**Pneumococcal Vaccine Baseline Survey**

Please complete the survey below.

Thank you!

**Pneumococcal Provider Pre-Intervention Survey**

1) Date: [text field] [today]

2) Last 2 numbers of UT Health ID: [text field]

3) Gender:  Male  Female  Prefer not to answer

4) Birthdate: [text field] [today]

5) Role: [text field]

**Section 1: Knowledge about the disease and the vaccine**

6) Which of the following is true regarding CDC recommendations for Pneumovax 23 (PPSV23) and Prevnar 13 (PCV13)? (assuming no previous pneumonia vaccine has been given before age 65)

7) Can you get the Pneumovax (PPSV23)/Prevnar (PCV13) vaccines if you have had pneumonia before?

8) Can you get the Pneumovax (PPSV23)/Prevnar (PCV13) vaccines at the same time as the flu shot?

- **Presurvey:** Family Medicine residents complete questionnaires covering their current knowledge and attitudes toward pneumococcal vaccination
- **Card Study:** Each resident is instructed to review their clinic patients to find those who qualify for PCV vaccination and complete a card on those patients
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- **Postsurvey:** FM residents complete additional questionnaire to assess for changes in attitude or knowledge on PCV vaccine

Level of Training: PGY1 PGY2 PGY3 Home Team Color: red/rose blue/brown gray/green

Fill out the following using the information from the patient's chart (DO NOT ask patient):

Date of Visit: \_\_\_/\_\_\_/\_\_\_ Gender: \_\_\_\_\_  
Type of Visit (circle one): tele visit or office visit Health Insurance: \_\_\_\_\_  
Age: \_\_\_\_\_ (MUST BE over the age of 65!)

Fill out the following during patient interview:

1. Have you received any vaccine to prevent pneumonia? YES NO

• IF YES

- How many? \_\_\_\_\_
- When? \_\_\_\_\_
- Where (clinic, pharmacy, local health fair)? \_\_\_\_\_

• IF NO

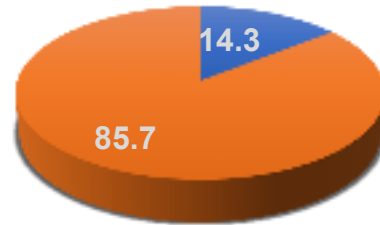
- Can you describe why you were not able to receive the vaccine?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# RESULTS

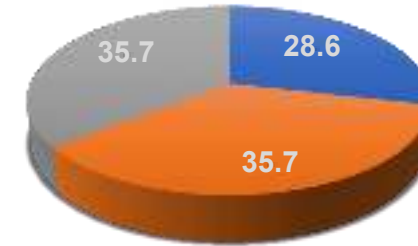
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### Gender Distribution



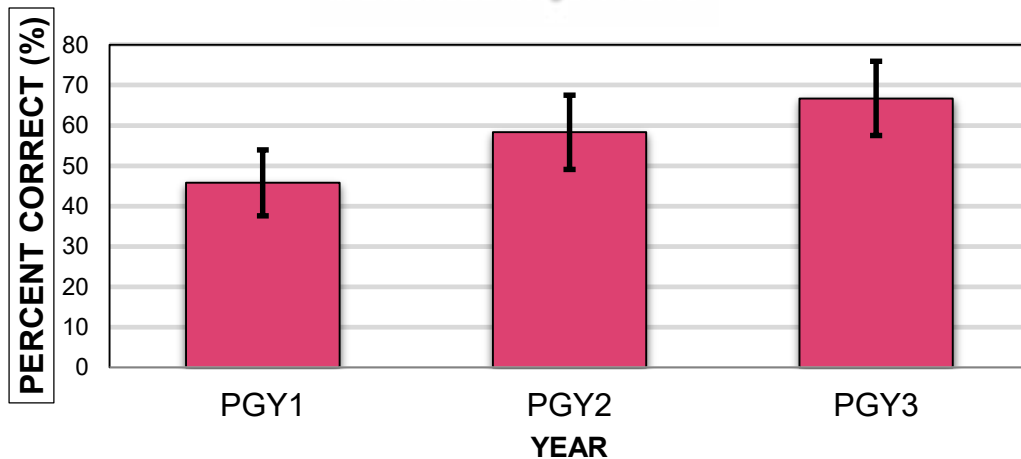
■ Male ■ Female

### Residency Year Distribution (%)

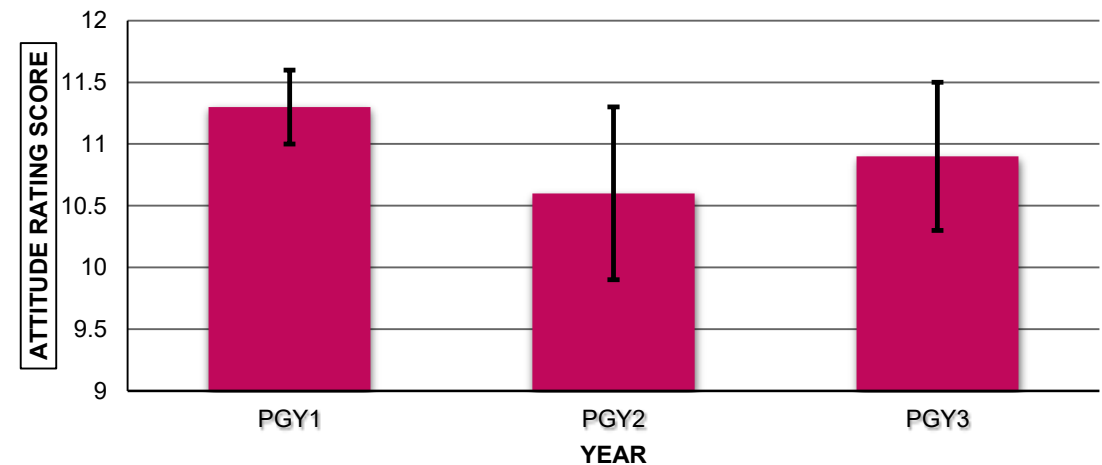


■ PGY1 ■ PGY2 ■ PGY3

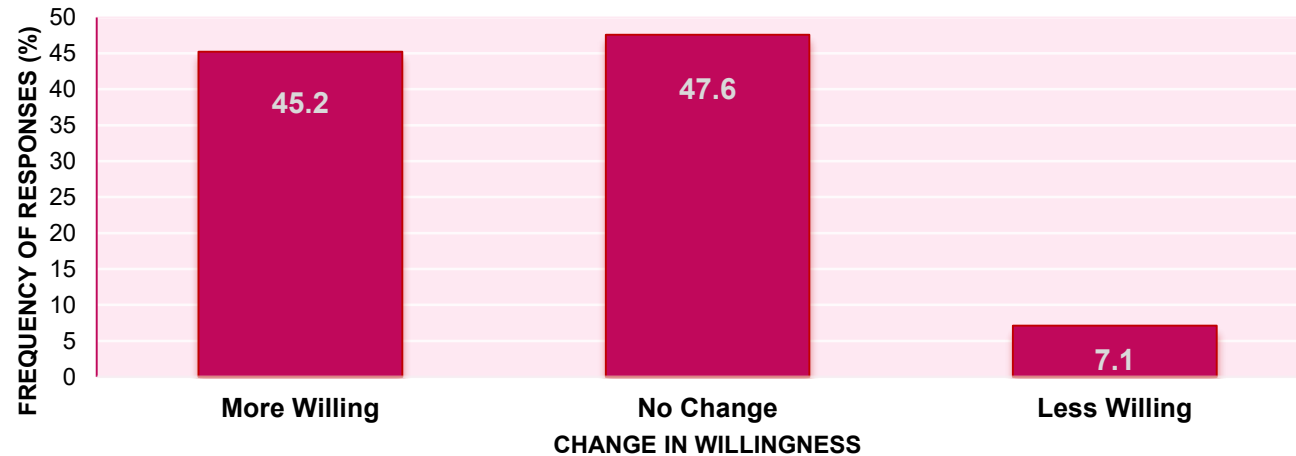
### Mean Knowledge Score by Residency Year



### Mean Attitude Score by Residency Year



## Willingness to give a pneumonia vaccine during the pandemic



How has the Covid 19 pandemic affected your willingness to recommend the pneumonia vaccine?	Sample answers
<b>More willing</b>	“I [would] like my patients to be protected and prevent possible complications of certain diseases”
<b>No effect</b>	“It is still important”
<b>Less willing</b>	“[There are] less in person visits and when they are in person there has been a lot of other things to "catch up" on like labs”



# CONCLUSIONS

- Data collection is still in process.
- The Covid-19 pandemic has had widespread impact on patients as well as providers
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