

## BACKGROUND

- The CDC recommends seniors ≥65 be vaccinated for influenza yearly
- CDC also recommends seniors ≥65 be vaccinated once with PPSV 23 (Pneumococcal Vaccine Polyvalent) AND with PCV 13 (Pneumococcal conjugate vaccine)
- Prior to any intervention, the vaccination rate of seniors in our clinic (5/1/2015 to 4/30/2016) was 25.82% for influenza, 0.79% for PPSV 23, and 16.03% for PCV 13
- The state of South Carolina does NOT have a vaccine registry, so we tracked vaccination rates in our target population by using CPT codes 90630, 90732, and 90670 to determine if patients received the vaccine during our study period
- Post intervention data was gathered from 08/01/2017- 11/01/2018

## OBJECTIVES

- To increase influenza vaccination rate in our McLeod Family Medicine Clinic (FMC) by 50% from a baseline of 25.82% to at least 38.73%
- To increase pneumococcal vaccination rates by 35% (PPSV 23 from 0.79% to 1.07%) (PCV 13 from 16.03% to 21.6%)
- Improve awareness about current vaccination guidelines

## METHODS

- Data was obtained from a database query of our outpatient electronic health record (eClinicalWorks)
- The total number of seniors ≥65 used as the denominator represents unique patient visits
- Any repeat visits within the specified time range were excluded
- The numerator, displaying number of patients to receive a specific vaccine, includes all vaccinations that were administered in our office and any self-reported vaccinations received outside of our practice
- Interventions involved educating resident physicians and staff on current guidelines, placing vaccine reminder flyers around clinic, aimed at both clinicians AND patients, and sending out postcards to our targeted population
- Data was gathered prior to and after planned interventions by methods mentioned above
- Patients were asked to bring postcards with them to receive vaccinations in order to track return rate

## RESULTS

- Final vaccination rate for influenza was 31.70%, which is an absolute increase of 5.88% (22.8% relative increase)
- Final vaccination rate for PPSV 23 was 7.20%, which is an absolute increase of 6.41%
- Final vaccination rate for PCV 13 was 9.22%, which is an absolute decrease of 6.81%
- Thus, goal for vaccination rate improvement was not met
- 1,325 postcards were mailed out, 35 were returned, consistent with a 2.64% return rate

Overall Vaccination Rates			
	Pre Data	Post Data	Difference
<b>Influenza</b>	25.82%	31.70%	+5.88%
<b>PPSV 23</b>	0.79%	7.20%	+6.41%
<b>PCV 13</b>	16.03%	9.22%	-6.81%

## CONCLUSION

- Although there was notable increase in 2 of the 3 studied vaccination rates, goals for improvement were not met
- Overall, our clinic remains well below national goals for vaccination
- Even though goals were not met and our clinic vaccination rate is low, we did successfully increase rates of immunization in 2/3 categories studied, which is promising
- Postcard mailers did not provide good return rate if evaluating based on returned mailer count alone; however, we cannot rule out the fact many patients may have seen the mailer, but forgot to bring it back in
- Decline in PCV 13 compliance may be due to the fact it is the first recommended vaccine in the series. Because of this, reminders may have brought patients who already had the first pneumonia vaccine in for a second, but did not dramatically increase the rate of patients receiving the initial vaccine

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Are you over the age of  
**65?**

If your answer is yes, the CDC recommends  
**TWO** Pneumonia vaccines:  
**Pneumovax®23** and **Pneumovax®23**






Contact McLeod Family Medicine Center for more information on how to protect yourself from this preventable illness: 843-777-2800.