# Implementation of A Protocol to Refer Patients with Asthma to A Community Program That Provides Home Visits

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## PROBLEM STATEMENT

- The Community Preventative Services Task Force (CPSTF) recommends the use of home-based multi-trigger, multicomponent interventions with an environmental focus for persons with asthma to reduce exposure to various indoor asthma triggers.
- Home-based multi-trigger, multicomponent interventions improve asthma control, improve healthcare use, and improve environmental trigger reduction with a positive return on investment.
- Healthcare providers have knowledge of community resources that provide home-based multi-trigger, multicomponent interventions.
- A referral and the passage of information about these community programs to patients with asthma can greatly improve their management of asthma.

# PROJECT PURPOSE

- The purpose of this project was to implement a protocol to increase referrals to an asthma community resource program and improve quality of life and asthma control.
- Clinical question: For patients (age eight and older) with asthma, will the implementation of a protocol for a referral to a community resource for a home visit result in better asthma control based on the Asthma Control Test (ACT)?

#### **MODEL/NURSING THEORY**

- The QI project utilized the Plan-Do-Study Act (PDSA) model to plan for change, implement the plan, analyze the results, and take action based on results.
- Health Belief Theory was utilized to help understand health behaviors, guide health promotion and prevention, and predict individual changes in health behaviors.

### **METHODS**

# Subjects (Participants)

Patients aged 8 and older with a diagnosis of asthma. (N=13)

# Setting

A private practice located in central Florida that provides specialized care for patients with asthma, allergy, and immune diseases.

#### Instruments/Tools

excellent asthma control

The Asthma Control Test (ACT) is a standardized and validated questionnaire that assesses the level of asthma control and classifies the level of asthma control within the last four weeks. The total score will range from 5, which indicates poor asthma control, to 25, which indicates

# Intervention and Data Collection

Obtain	Refer for	Obtain	
pre-ACT	home	post-ACT	•
score	visit	score	/

# QI project took place between 5/2021-7/2021

		B. [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]		thma symptoms		a week g, coughing, sh	ortness of	Not at all breath, chest	tightness	1
4 or more nights a week	(1)	2 or 3 nights a week	2	ual in the morn Once a week	3	Once or twice	4	Not at all	5	
2822 18 88	883	62 1723 - 0728 - 1		30 30	3(4. 3)		97 - 7972 - 572		N=1223	1
end many of the same	past 4 we		have you	used your rescu	ie inhaler	State of the state	dication (	such as albut	terol)?	
3 or more times per day	1	1 or 2 times per day	2	2 or 3 times per week	3	Once a week or less	4	Not at all	5	
5. How would Not controlled at all		our asthma con	trol durin	g the past <b>4 we</b> Somewhat	eks?	Well controlled	4	Completely controlled	5	2.50
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	LUNG		The Amei	can Lung Association		-				T

#### RESULTS

- P=0.0093
- 95% confidence interval: -8.78 to -1.37

Name of person with asthma\*



Guardian (if person with astl	nma is under 18)	
Email		
Address*		
City*	Zip Code*	
Age of person(s) with asthm	a	
Phone number xxx-xxx-xxx	x*	
Do you own or rent your hor	ne?*	
□ Own		
□ Rent		
□ Unknown		
Referred by (name of provid	er or person who referred you)	
When is the best time for a to	eam member to call you?	

Referral Tool

#### DISCUSSION

- The results of the QI project showed successful implementation of the protocol and improvement of asthma control based on improvement of ACT scores.
- The independent t-test yielded p=0.0093, which shows statistical significance.
- Limitations include sample size due to reluctance to accept a referral for a home visit.

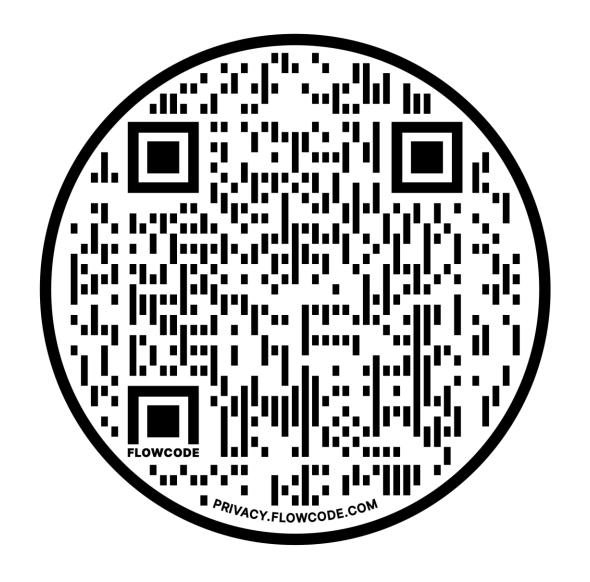
# IMPLICATIONS FOR ADVANCE PRACTICE NURSING

The project results can anticipate a difference in patient outcomes by decreasing primary care sick visits, emergency room visits and hospital admissions, as well as oral corticosteroid use with asthma exacerbations.

#### SUSTAINABILITY

Can be easily utilized by all providers in the practice and in similar settings

#### REFERENCES



Referrals for asthma home visits significantly improved asthma control based on ACT scores.

