Utilization of Community Health Promoters or Outreach Certified Nursing Assistants to Improve Outcomes of Diabetes, Cardiovascular Disease and Obesity in Vulnerable Populations.

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INTRODUCTION

• Diabetes and heart disease are two of the leading causes of death in the United States. Obesity is a major risk factor for both of these disease processes.

• There is a projected primary care provider shortage ranging from 12,500 to 31,100 by 2025.

 Nurse practitioners are collaborating with other disciplines to develop programs to improve chronic disease outcomes when the traditional provider visit may not be easily accessible.

Community health promoters (CHP) and certified nursing assistants (CNA) can be included in the care team to improve access and outcomes of patients with hypertension, diabetes, and obesity.

EFFECTIVE ROLES OF CHP

Patient Educator Patient Motivator Patient Advocate Identifiers of those at risk for DM, CVD, and with Obesity

Example of Accurate Screening for DM in Latino Migrant Population by CHP

Percentage Agreement of CHP and RN Generated Diabetes Risk Scores						
	Agree (n,%)		Disagree RN – CHW (n,%)		Disagree CHW – RN (n,%)	
1	2	7.14	4	10.53	6	15.79
2	5	17.86	7	18.42	10	26.32
3	9	32.14	12	31.58	6	15.79
4	3	10.71	4	10.53	8	21.05
5	4	14.29	4	10.53	5	13.16
6	2	7.14	7	18.42	0	0
7	2	7.14	0	0	3	7.89
8	1	3.57	0	0	0	0
Pearson Chi ²	df(7)		5.971	0.543	8.5312	0.288
			1			
Fisher's exact				.621		.312

Note: Farmworker sample N=66. RN vs CHW: Pearson chi2(7)=5.9711 Pr =0.543 Fisher's exact=0.621; CHW vs RN: Pearson chi2(7)=8.5312 Pr = 0.288 Fisher's exact=0.312

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ROLES OF OUTREACH CNA Address medication adherence Educate on healthy eating Creation of personalized exercise plan Connect patients with health services



"I love when the girls visit. I am learning so much. I am proud of myself. My pressure is better than it has ever been." – Outreach Patient

OUTCOMES OF CHP PROGRAMS (Diabetic & Hypertension Patients)

1. Improve self efficacy

- 2. Improve diabetes knowledge scores
- 3. Improve diabetes and CVD clinical outcomes
- 4. Improve activity level
- 5. Improve dietary behaviors
- 6. Improved access to care for those with high risk scores



UVA DEPARTMENT OF FAMILY MEDICINE OUTREACH

Started in 2015 Grand-Aide curriculum 2-3 CNAs with DNP supervisor Home visits by CNA Patients with Diabetes, HTN or Obesity

DNP ROLE IN UVA OUTREACH PROGRAM

Curriculum development with Grand-Aides USA Training of CHP or CNA Liaison to clinic Identifier of high utilizers or high risk patients Real time assessments via telecommunication

PATIENT-CENTERED GOALS OF PROGRAM Patient Goal(s):

_ Take medication as prescribed

- Increase amount of physical activity
- Improve healthy diet by limiting fatty and processed foods
- _ Reduce sodium in diet
- ____ Increase amount of water I drink every day
- __ Reduce stress
- ____ Monitor my blood pressure
- ____ Other, please list:

OVERALL PROGRAM GOALS

20% reduction in emergency department utilization 20% reduction in hospitalization rates Statistically significant reduction in health care cost-per-patient

REFERENCES

- Grand-Aides hypertension, diabetes and obesity manual for University of Virginia Department of Family Medicine.
- Thompson, R., Snyder, A., Burt, D., Greiner, D & Luna, M. (2014). Risk Screening for Cardiovascular Disease and Diabetes in Latino Migrant Farmworkers: A Role for the Community Health Worker. *Journal of Community Health*, published online 4 July 2014. DOI: 10.1007/s10900-014-9910-2.