What is the Impact of Structured Training for Paraprofessional and Professional Diabetes Educators?

PRISMA HEALTHSM

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Background

- Only 5-7% of eligible patients receive formal diabetes self-management education and support (DSMES).¹
- Patients receive diabetes-related information from all members of the health care team.
- ADCES defines the level of practice, knowledge, and skills for Diabetes
 Community Care Coordinators, nonspecialist clinicians, and Diabetes Care and Education Specialists.²
- Diabetes Community Care Coordinators and non-specialist clinicians should be able to identify patient knowledge gaps to provide education within their scope or refer patients to DSMES.

Purpose

To assess the usage of ADCES modules to improve knowledge of Diabetes Community Care Coordinators and non-specialist clinicians.

Outcomes

- Change in pretest and posttest knowledge scores
- Change in employee self-confidence

Methods

Study design

One group, pretest, posttest design

Inclusion criteria

Health system employees

Exclusion criteria

- Certified Diabetes Care and Education Specialists
- Employees who provide diabetes prevention services
- Employees who primarily care for pediatric patients

Intervention



ADCES Modules

Paraprofessional Level 1 (PP 1)

- 10 question pretest/posttest
- 14.5 hour module (1 month)

Paraprofessional Level 2 (PP 2)

- 15 question pretest/posttest
- 27 hour module (2 months)

Basic Diabetes Educator (BE)

- 20 question pretest/posttest
- 46 hour module (3 months)

Results

Demographics

	PP 1 (n=28)	PP 2 (n=36)	BE (n=19)
Age (years, mean)	38	43	37
Sex			
Female	25	31	16
Race			
African American	8	9	2
Caucasian	18	25	14
Other	2	2	3
Years experience			
< 1 year	6	2	5
1-5 years	9	14	5
5-10 years	7	6	4
>10 years	6	14	5
Education			
High school	4	3	0
2 year degree	6	26	4
4 year degree	14	5	2
Masters	4	2	3
Doctorate	0	0	10

Occupation

PP	1	(n)	
	_	(,,)	

- Nonclinical(9)
- Health coach (8)Lay health
- worker (5)
 CHW (2)
- CHW (2)Other (4)

PP 2 (n)

- MA (22)LPN(4)
 - CCHW (4)Community
 - paramedic (4)
 - Pharmacy tech (2)

BE (n)

- Physician (10)
- RN (7)
- NP (1) • PA (1)

Primary Outcome

PP 1 Scores	Pretest	Posttest	Change	P-value
N	28	24		
Score (%), M ± SD	59.6 ± 15.0	77.1 ± 14.0	+ 17.5	< 0.001
PP 2 Scores	Pretest	Posttest	Change	P-value
PP 2 Scores	Pretest 36	Posttest 27	Change	P-value

Results (continued)

BE Scores	Pretest	Posttest	Change	P-value
N	19	8		
Score (%), M ± SD	61.8 ± 11.6	73.1 ± 14.9	+ 11.3	0.041

Self-Confidence Rating

	Pretest	Posttest	Change	P-value
PP 1 N	28	24		
Self-Confidence				
Rating, M ± SD	3.6 ± 0.9	4.1 ± 1.0	+ 0.5	0.027
PP 2 N	28	24		
Self-Confidence				
Rating, M ± SD	3.6 ± 0.9	4.1 ± 0.6	+ 0.5	0.007
BE N	19	8		
Self-Confidence				
Rating, M ± SD	3.8 ± 0.9	4.3 ± 0.4	+ 0.5	0.020

Conclusion

Structured training for Diabetes Community Care Coordinators and nonspecialist clinicians can improve diabetes knowledge and employee confidence.

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References

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- 2. Burke, et al. (2016). *Practice Levels for Diabetes Educators and Diabetes Paraprofessionals*. ADCES. www.diabeteseducator.org