



Peer Support in Diabetes Management

Postgraduate Diabetes Management and Education

Module 7102

Semester 1

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Learning Outcomes

- Define peer support in diabetes care
- Discuss core functions of peer support
- Discuss the different approaches of offering peer support
- Discuss evidences of peer support in diabetes management and education

History of Peer Support



 Started at a Psychiatric Hospital (Bicêtre Hospital) in late 18th century at Paris, France to recognize the value of employing recovered patients as hospital staff. The chief physician at the hospital, Philippe Pinel, praised these peer staff for being "gentle, honest, and humane" vs "averse from active cruelty".

Hiring former patients marked a shift in the philosophy of mental health care that ushered in the "moral treatment" era.

http://peersforprogress.org/pfp_blog/a-brief-history-of-peer-support-origins/ A Brief History of Peer Support: Origins Patrick Tang, MPH

History of Peer Support in Diabetes

- From...... peer support quickly found new applications in chronic disease management (diabetes, mental health, heart disease, cancer, asthma, HIV/AIDS, substance abuse)
- Screening and prevention (cancer, HIV/AIDS, infectious diseases)
- Maternal and child health (breastfeeding, nutrition, post-partum depression)

http://peersforprogress.org/pfp_blog/a-brief-history-of-peer-support-origins/ A Brief History of Peer Support: Origins Patrick Tang, MPH



Peers for Progress Peer Support Around the World

A program of the American Academy of Family Physicians Foundation

Funded by Eli Lily Foundation

Located at the Department of Health Behaviour, University of North Caarolina, Chapel Hill, USA



Prof. Edwin Fisher Professor of Health Behavior and Health Education UNC Gillings School of Global Public Health To ensure people living with diabetes or other chronic health conditions have access to similar peer support networks that can offer:

2006

- Emotional
- □ Practical assistance
- Help people become healthy



Peer Support Around the World

A program of the American Academy of Family Physicians Foundation

Funded by Eli Lily Foundation

Located at the Department of Health Behaviour, University of North Carolina, Chapel Hill, USA

- Support development of Peer Support curriculum and training resources, research, collaborate leadership in Peers for progress with 14 projects globally
- "Unless they are not very sick, people with diabetes probably spend fewer than SIX hours or <2%-5% of their life each year in a health professional's office

Prof. Edwin Fisher

http://peersforprogress.org

Why 6 hours?

- If people with diabetes consult their doctor every 3 months i.e. 4 x a year
- Each visit the person spend 15-30 minutes with their doctor i.e. total of 1-2 hour a year
- ** People with diabetes consult their diabetes nurses/ dietitians 2-3 times a year. Each time 1 hour i.e. 2-6 hour a year
- The rest of the life the person with diabetes decide how to take care of their diabetes!
- <u>In conclusion</u> 95-98% of diabetes care in daily life is decided by the person living with diabetes



Taking care of Diabetes......8760 hours/Year....



Living with Diabetes On Your Own- 8,760 Hrs



Many people with diabetes suffer mental exhaustion, feelings of isolation related to disease management, experiencing stigma, feelings of guilt, shame, and failure......Need of Peer Support

Definition of Peer Support

- Support from a person who has knowledge from their own experiences with diabetes
 - a person with diabetes
 - a person affected by diabetes (immediate family member/carers)

• American Academy of Family Physicians (AAFP) program Peers for Progress

- Assistance in applying disease management and prevention plans in daily life
- Provision of emotional and social support linkage to clinical care and on-going support

World Health Organization



Why Peer Support

Healthcare Providers are the Experts Listen to what I said



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Peer Support Provides Nonhierarchical Relationship



When do People with Diabetes need Education and Support



Margaret A. Powers etc. Diabetes Self-management Education and Support in Adults With Type 2 Diabetes A Consensus Report of the American Diabetes Association, the Association of Diabetes Care & Education Specialists, the Academy of Nutrition and Dietetics, the American Academy of Family Physicians, the American Academy of PAs, the American Association of Nurse Practitioners, and the American Pharmacists Association. The Diabetes Educator. Volume 46, Number 4, August 2020

Peer Support-Core Functions

Assistance in applying disease management in daily life

Provide emotional and social support

Linkage to clinical care and community resources

Ongoing availability of support

Lianga D , Jiaa RY, Zhoua X et al. The effectiveness of peer support on self-efficacy and self-management in people with type 2 diabetes: A meta-analysis. Patient Education and Counseling 2021; 104 :760–769

1. Core function of Peer Support

- Assistance in applying disease management in daily life
- Peer supporters use their own experiences with

nutrition
physical activity
medication adherence
Monitoring
Problem solving

• To help people figure out how to manage diabetes in their daily lives.

2. Core function of Peer Support

- Provide Emotional and Social Support.
- Through empathetic, active listening and encouragement, peer supporters help patients cope with social or emotional barriers
 - Reassurance
 stay motivated
 absence of criticism
- To reach their goals

2. Core function of Peer Support Provide emotional and social support

'I don't know anyone else who has type 1 so the forums (peer support) are really useful to vent our frustrations, to make you feel like you are not alone.'



Gilbert K,Dodson S, Gill M. et al. Online Communities Are Valued by People With Type 1 Diabetes for Peer Support: How Well Do Health Professionals Understand This? Diabetes Spectrum 2012; 25(3): 180-191 2. Core function of Peer Support Provide Emotional and Social support

I type out my story.... The response were astronomical!' People who had done the same- skipping insulin to lose weight...etc and all the positive encouragement in my process to recovery was something I never expected but really appreciated'

It is not there to tell me off for NOT doing the expected diabetes management.



Gilbert K, Dodson S, Gill M. et al. Online Communities Are Valued by People With Type 1 Diabetes for Peer Support: How Well Do Health Professionals Understand This? Diabetes Spectrum 2012; 25(3): 180-191

3. Core function of Peer Support

- Linkage to clinical care and community resources
- Peer supporters help bridge the gap between patients and primary care providers and encourage individuals to seek out clinical care when appropriate
- They can also help in identifying key resources such as where to buy healthy foods or convenient locations for exercise

Peer-Led Diabetes Education Programs in High-Risk Mexican Americans Improve Glycemic Control Compared With Standard Approaches

A Project Dulce promotora randomized trial

ATHENA PHILIS-TSIMIKAS, MD¹ Adelaide Fortmann, ms² Leticia Lleva-Ocana, mph¹ CHRIS WALKER, MPH¹ LINDA C. GALLO, PHD²

this disease burden, additional cultural barriers exist, preventing optimal care and clinical benefit in these groups, put-

When Peer promoters noted the their peers were not meeting the ADA treatment goals, encourage follow-up with their primary care providers but did not make any medication recommendations

Philis-Tsimikas A, Fortmann A, Lleva-Ocana L et al. Peer-led Diabetes Education Progrms in High-risk Mexican Americans improve glycaemic control compared with Standard Approaches. Diabetes Care 2011; 34: 1926-1931

4. Core function of Peer Support

 Ongoing availability of support; proactive contact Peer supporters keep their peers engaged by providing proactive, flexible and continual long-term follow-up as well as sense of belonging

I see my HCPs... every 4 moths or so. This site is there all the times, in between and especially when I don't need a medical opinion.

Gilbert K, Dodson S, Gill M. et al. Online Communities Are Valued by People With Type 1 Diabetes for Peer Support: How Well Do Health Professionals Understand This? Diabetes Spectrum 2012; 25(3): 180-191

Peer Support Models/Approaches

Peer Support Model 1

Peer-led face-to-face self-management support group (most common)

 A person/ a team who share the same condition as the peer lead(s) an interactive group discussion on daily self-management provide emotional and practical support

Peer Support for Rural Ugandan Adults with Type 2 Diabetes

Linda Baumann, PhD, RN, FAAN



Peer Support Model 2

Peer coaches or mentors

- Meet one-on-one with peer or groups on less structured basis to listen, discuss concerns, provide emotional support and serve as role model
- Home visit

WHO Peer Support Group



One-to-one peer support by and for people with lived experience

WHO QualityRights guidance module





Peer support groups by and for

people with lived experience

WHO QualityRights guidance module



Peer Support Models 3

Telephone/SMS-based peer support

- Support via regular phone calls
- Telephone ± complement other intervention(s)

- Advantages
 ➢ overcome distance barriers
 ➢ Cost*
 ➢ privacy and anonymity
- Disadvantages
- ➤Cost (phone call)
- Ioss of privacy with sharing phone numbers
- Lack of human contact with interactive voice response (AI)

Peer Support Model 4

Web based support group using technology-mediated communications

- e-mails, facebook, twitter, U-tube etc
- Advantage
 Convenience
 low cost
 no geographical limitation
- Disadvantages:
 IT related e.g. knowledge and technology

Peer Support Model 5

Community health workers

- They do not necessarily have a chronic condition, but share language, culture and community with the patients
- Community promoters bridge the gap between their respective communities and healthcare providers/system

Peer Support Models 6

Professional-led group visits with peer exchange

 People who share the same disease are brought together by health care providers to discuss their self-management challenges



Grocery Teaching Session

Evidences of Peer Support in Diabetes Management and Education

A Peer Support Intervention in Improving Glycemic Control in Patients with Type 2 Diabetes

Objectives

 To assess effectiveness of 6month diabetes selfmanagement structured training provided by peer support intervention among patients with T2DM

• Primary outcomes:

• HbA1c, BMI, self-care behaviors, self-efficacy and life quality

Methods

- RCT in a University Diab Specialty clinic
- Number: 200 patients allocated to peer support (Intervention) or control group.

Methods

- Both groups received usual education by diabetes educators.
- Intervention group worked with the trained volunteer peers who encouraged participants to engage in daily selfmanagement (6 sessions)
 - medication
 - diet, exercise
 - Weight management,
 - healthy coping and problem solving
- Discuss and share their experiences and challenges of diabetes management.

Peimania M, Monjazebib F, Ghodssi-Ghassemabadic R et al. A peer support intervention in improving glycemic control in patients with type 2 diabetes. Patient Education and Counseling 2018; 110: 460-466

A Peer Support Intervention in Improving Glycemic Control in Patients with Type 2 Diabetes

Results

Effect of intervention on BMI, HbA1c, Diabetes self-management activities, Diabetes self-efficacy and Quality of life.

Variables	Baseline (mean ± SD)	After 6 months (mean ± SD)	P-value	Diff (post-pre) (mean ± SD)	"P value
Body mass index (kg/m ²) Peer-Support group Control group P value [†]	$\begin{array}{c} 28.11 \pm 5.29 \\ 28.35 \pm 4.80 \\ 0.859 \end{array}$	$27.52 \pm 5.52 \\ 28.50 \pm 5.20$	0.162 0.85	$\begin{array}{c} -0.59 \pm 4.19 \\ 0.15 \pm 3.89 \end{array}$	0.197
Glycosylated hemoglobin Peer-Support group Control group P value [‡]	(%) 7.29±1.33 7.47±1.49 0.670	$\begin{array}{c} 6.98 \pm 1.31 \\ 7.50 \pm 1.44 \end{array}$	0.045 0.84	$\begin{array}{c} -0.31 \pm 1.02 \\ 0.03 \pm 1.14 \end{array}$	0,027
Diabetes Self-managemen Peer-Support group Control group P value [†]	t 28.11 \pm 10.26 27.27 \pm 9.13 0.890	$\begin{array}{c} 37.35 \pm 10.54 \\ 22.68 \pm 11.25 \end{array}$	<0.001 <0.001	$\begin{array}{c} 9.24 \pm 8.06 \\ -4.59 \pm 8.13 \end{array}$	< 0,001
Diabetes management sel Peer-Support group Control group P value [†]	f-efficacy 60.40 ± 12.90 61.95 ± 11.86 0.091	$\begin{array}{c} 40.77 \pm 11.50 \\ 69.95 \pm 11.38 \end{array}$	<0.001 <0.001	$\begin{array}{c} -19.63 \pm 9.54 \\ 8 \pm 9.01 \end{array}$	<0.001
Diabetes quality of life Peer-Support group Control group P value [‡]	$\begin{array}{c} 150.34 \pm 20.49 \\ 148.40 \pm 18.55 \\ 0.749 \end{array}$	$\begin{array}{c} 198.75 \pm 26.5 \\ 132.50 \pm 18.50 \end{array}$	<0.001 <0.001	$\begin{array}{c} 48.41 \pm 19.02 \\ -15.9 \pm 14.35 \end{array}$	<0.001

Conclusion

 Peer support activities can be successfully applied in diabetes self-management, especially in areas with a shortage of professionals and economic resource

P-value of paired t-test for comparison of pre and post measurements within each group.

P-value of Independent sample t-test for comparison of change of responses between two groups,

[‡] P-value of Independent sample t-test for comparison of baseline measures between two groups,

Peer Support Interventions for Adults With Diabetes: A Meta-Analysis of Hemoglobin A1c Outcomes

- 17 RCT (1960- Nov 2015)
- Country: 10 (United States) 4 (Europe), 1 (Canada),1 (China), 1(Argentina)
- N= 4,715 participants.
- Result: Overall improvement in HbA1c level of 0.24% (95% CI, 0.05%-0.43%).
- An improvement in pooled HbA1c in subset of minority which translates to an improvement in HbA1c level of 0.48% (95% CI, 0.25%-0.70%)

	HbA _{1c} Statistics							
Study, Year	SMD Limit		Upper P Limit Value		HbA _{1c} S	MD and 95%	ci	
Keyserling et al, ²³ 2002	0.029	-0.311	0.369	.87	<u> </u>	_	-	
Lorig et al, ²⁶ 2008	0.240	0.047	0.433	.02				
Lorig et al, ²⁵ 2009	-0.067	-0.279	0.144	.53	<u> </u>			
Dale et al, ³² 2009	-0.306	-0.594	-0.017	.04				
Cade et al, ³¹ 2009	-0.159	-0.435	0.117	.26				
Heisler et al,22 2010	0.377	0.124	0.630	.004				
Philis-Tsimikas et al,27 2011	0.371	0.097	0.646	.008				
Smith et al, ³⁴ 2011	0.000	-0.208	0.208	1.00	-			
Long et al, ²⁴ 2012	0.661	0.202	1.120	.005		Τ —		
Gagliardino et al, ³⁷ 2013	0.000	-0.279	0.279	1.00	_			
Siminerio et al, ²⁹ 2013	0.108	-0.369	0.584	.66			<u> </u>	
Thom et al,30 2013	0.357	0.129	0.586	.002				
Chan et al, ³⁶ 2014	0.007	-0.150	0.163	.93				
Simmons et al, 33 2015	0.029	-0.153	0.211	.75				
Safford et al, ²⁸ 2015	0.181	-0.104	0.465	.21			—	
Ayala et al, ²¹ 2015	0.205	-0.009	0.419	.06			-	
McGowan ³⁵ 2015	0.248	0.029	0.467	.03			—	
Summary effect	0.121	0.026	0.217	.01				
				-1.00	-0.50	0.00	0.50	1.
					Favors control	Favo	rs peer suppor	t

Figure 2. Effect of peer support interventions on hemoglobin A_{1c} levels.

Notes: Random effects model, I² = 60.66%; P for heterogeneity = .00

Patil SJ, Ruppar T, Koopman RJ et al. Peer Support Interventions for Adults With Diabetes: A Meta-Analysis of Hemoglobin A1c Outcomes. Annals of Family Medicine 2016;14 (6): 540- 551

Peer Support Interventions for Adults With Diabetes: A Meta-Analysis of Hemoglobin A1c Outcomes

- Result: In subset of minority, improvement in HbA1c level of 0.48% (95% CI, 0.25%-0.70%)
- Why minority?
- Peer health coaches might be providing more culturally appropriate health education in ethnic minority populations, particularly Latino ones

Figure 4. Subgroup analysis of the effect of peer support interventions on hemoglobin A_{1c} levels in studies by predominant minority status of the participants.



 $HbA_{tc} = hemoglobin A_{tc}$; SMD = standardized mean difference.

Notes: Minority subgroup: I² = 9.24%, P for heterogeneity = .35. Nonminority subgroup: I² = 45.90%, P for heterogeneity = .06.

Patil SJ, Ruppar T, Koopman RJ et al. Peer Support Interventions for Adults With Diabetes: A Meta-Analysis of Hemoglobin A1c Outcomes. Annals of Family Medicine 2016;14 (6): 540- 551

Review Article

The Effectiveness of Peer Support on Self-efficacy and Self-Management in People with Type 2 Diabetes: A Meta-Analysis



Lianga D , Jiaa RY, Zhoua X et al. The effectiveness of peer support on self-efficacy and self-management in people with type 2 diabetes: A meta-analysis. Patient Education and Counseling 2021; 104 :760–769

Review Article

The Effectiveness of Peer Support on Self-efficacy and Self-Management in People with Type 2 Diabetes: A Meta-Analysis

Sub-analysis of effectiveness of peer support

Duration of intervention time by peer supporter	< <mark>6 mths</mark> SMD = 0.27, 95 % CI= (0.02, 0.51) p = 0.03	>6 months SMD = 0.45, 95 % CI= (0.19, 0.71) p = 0.0006
Countries	Developing countries (n = 5) SMD = 0.44, 95 % CI= (0.14, 0.74) p = 0.005	Developed countries (n = 6) SMD= 0.39, 95 % CI= (0.07, 0.72) p = 0.02
Age Group	< 60 years SMD = 0.26, 95 % CI= (0.07, 0.45) p = 0.007	<pre>> 60 years SMD= 0.36, 95 % CI= (0.07, 0.65) p = 0.01</pre>

Lianga D , Jiaa RY, Zhoua X et al. The effectiveness of peer support on self-efficacy and self-management in people with type 2 diabetes: A meta-analysis. Patient Education and Counseling 2021; 104 :760–769

Advantages of Being Peer Supporters

Effect of Providing Peer Support on Diabetes Management in People with Type 2 Diabetes

- PURPOSE: Examined effects of participating in a "train-thetrainer" program and being a peer supporter on metabolic and cognitive/ psychological/ behavioral parameters
- N: 79 participants
- METHODS
- 59 completed training programme,
- Group 1: 33 agreed to be peer supporters ("agreed trainees") and were each assigned to support 10 patients for 1 year, with a voluntary extension period of 3 additional years,
- Group 2: 26 trainees declined to be supporters ("refused trainees").
- Group 3: Control group: 60 patients who did not attend the training program
- Primary outcome was the change in average HbA1c levels for the 3 groups from baseline to 6 months.

Figure 2. Comparison of glycemic control in agreed trainees, refused trainees, and the comparison group during a 4-year observational period.



Data were presented as mean ± SE.

P = .001: Comparison of HbA_{1c} at extension year 2013 among the accepted trainees, refused trainees, and the comparison group.

Yin JM, Wong R, Au S et al. Effect of Providing Peer support on diabetes management in people with type 2 diabetes. Annal of Family Medicine 2015: 13(S1); S42-S49

Evaluation of Diabetic Peer Support in Malawi

Objectives

- To assess and evaluate the Kamuzu Central Hospital (KCH) diabetic peer support program's(DPSP) impact 4 years later on
- knowledge
- self-efficacy
- Behaviours
- DPSP members compared to nonmembers

Methods

- Cross-sectional study
- N=176 (98 diabetic peer supporter (DPSP), 78 non-peer supporters)
- Tool: self- and intervieweradministered questionnaires

Results

- DPSP members were more knowledgeable regarding the effects of skipping meals and sweet juice on blood glucose and conditions not associated with diabetes.
- DPSP members believe that they are more able to correct hypoglycaemia, to communicate their concerns to health workers and to perform daily foot exam

Conclusion

The KCH Diabetes
 Peer Support program
 has positively
 impacted its
 members.

Mwakalinga HT, Nuka YM, Banda PC et al. Evaluation of diabetic peer support in Malawi. Malawi Medical Journal 2021; 33 (2): 108-113

Training of Peer Supporters

- Training varies substantially with duration and intensity between
 3 -50 hours
- Usually structured curriculum and training helps to ensure sustainability of peer support program

Table 2 Topics in each of the 12 group self-management education sessions

Session	Topics			
Session 1	Overview of self-management and diabetes			
	Setting goals and making an action plan			
Session 2	Relaxation/cognitive symptom management			
Session 3	Increasing aerobic exercise			
Session 4	Healthy eating			
	Meal planning			
Session 5	Managing medications			
	Insulin injection			
Session 6	Fatigue management			
	Dealing with anger/fear/frustration			
Session 7	Routine medical checkups			
	Understanding the results of blood tests			
Session 8	Preventing and treating acute hypoglycemia			
Session 9	Hypertension management			
Session 10	Diabetic foot care			
Session 11 Communicating and working as a p with the healthcare team				
	Seeking support from family and friends			
Session 12	Planning for the future			
	Liu et al BMC Public Health 2012; 12-1043-1054			

Example of Training Process Within an Integrative Structure

Week One	Week Two	Week Three	Week Four	Week Five	Wrap-up:		
Patient Empowerment	Making Changes	What is diabetes?	Healthy eating	Stress, coping, depression	Debriefing and Review		
Introduction and patient empowerment	Knowledge review: quizlette	Knowledge review: quizlette	Knowledge review: quizlette	Knowledge review: quizlette	Knowledge Exam followed by debriefing o		
Experiential learning: "being a peer leader"	Peer leader simulation: Patient empowerment	Peer leader Simulation: Focusing on feelings	Peer leader simulation: What is A1C?	Peer leader simulation: Carbohydrate counting	each exam item Group leader simulation: In 2-person teams, peer		
Knowledge Acquisition: Principles of patient empowerment	Na disease proces blood pressu chronic complic	leaders will be assigned facilitate a session.					
Skills development: Behavior Change	Self-reflection care appt. Eliciting change services Problem-solving Goal-setting Making an actio	Empowerment and MI-based facilitation skills Self-reflection Discussing emotion					
Experiential learning: *being a group participant*	Role-play: 5-step goal setting model	Role-play: Making reflections	Group facilitation simulation: Evaluate action plans	Group facilitation Simulation: Discuss meal planning experiments	Eliciting Change Talk Problem-solving Goal-setting Making an		
Feedback and Self- Assessment	Str	action plan					

Tang TS, Funnel MM, Gilland M et al. The development of a pilot training program for peer leaders in diabetes: Process and content . The Diabetes Educator 2011: 67-77

Key Points to Successful Peer Support

No single ingredient

Common components are:

- Peer Support Programme are structured
- Peer Supporters are trained
- Frequent contact
- Maintain linkage with HCPs and Healthcare system
- Common characteristics-demographic, social, cultural
- Considerate of individual rights and privacy

Conclusion

- Evidence have shown peer support interventions are viable and promising model to overcome problems of lack of target control, shortage of HCPs and resources
- Peer support groups are important members of the healthcare team
- Peer supporters do not replace the roles of healthcare professionals but as complementary role.
- Peer support program fill the GAPS between management by healthcare professionals and the challenges of Living with Diabetes.

Conclusion

In the epidemic of diabetes, the solution to improve the situation might be within people with diabetes themselves by having "Peer support system' within the existing Healthcare system

Jose F Caroa and Edwin B Fisher 2008

Caroa JF and Fisher EB A solution might be within people with diabetes themselves. Family Practice 2008

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- 13. Liu SS, Bi AH, Fu DB et al. Effectiveness of using group visit model to support diabetes patient self-management in rural communities of Shanghai: a randomized control trial. BMC Public Health 2012: 12; 1043-1052
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THANK YOU FOR YOUR ATTENTION

Question?



Kindly provide feedback with this QR code provided