MSc Nursing Studies (Leadership in Clinical Practice) Dissertation

Effectiveness of Community-Based Nursing Program in Promoting Self-Management for Elderly Patients with **Diabetes Mellitus**

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Abstract

Aim:

Proactive and effective diabetes self-management is essential in preventing the development of diabetes complications. This could include things like blood glucose monitoring, physical activity, maintaining a healthy diet, and adhering to medication regimens. Nonetheless, elderly patients with diabetes often encounter challenges engaging in behaviors that help control their condition. The aim of this study is to investigate the effectiveness of nurse-led community programs with interventions, such as education and support, in encouraging diabetes self-management among geriatric patients.

Methods:

This research used a literature review methodology to collect relevant articles that have explored topics related to nurse-led community interventions to promote diabetes self-management in elderly patients. A systematic search of nursing and allied health literature was conducted to identify appropriate research evidence. Ten published peer reviewed articles were chosen and critically appraised to assess their methodological rigor and reliability, as well as to ensure the use of high-quality evidence.

Results:

The key themes that emerged from the literature review include the positive impact of nurse-led education and support, the effectiveness of behavioral and lifestyle interventions the significance of home visits for individualized care and empowerment, the importance of culturally tailored interventions for minority groups, and the role of long-terms follow-up and continuity of care in sustaining support for diabetic patients. These themes show that community nurse-led interventions have a crucial role in promoting diabetes self-management among elderly patients in the community.

Discussion:

The findings of this research emphasize the effectiveness of community nurse-led interventions in encouraging and promoting diabetes self-management among senior patients. As per the findings, nurse-led education and support interventions, delivered through home visits and community settings, improve patients' knowledge, self-efficacy,

practices. Furthermore, ct.

as of minority groups, increase patite

better healthcare outcomes. Long-term i

as contribute to improved self-care activities and

"ity-wide nurse-led programs have the potential to greatly enhance disputes

agement among geriatric patients. These programs enable patients to active participate in their care, resulting in improved health outcomes and enhanced quality or life.

Chapter one: INTRODUCTION AND BACKGROUND

Introduction

Diabetes is a long-term disease with no known cure, requiring continuous management upon diagnosis. The Center for Health Promotion (2023) defines diabetes mellitus (DM) as a chronic disorder that leads to insulin deficiency, insulin resistance, or both and is characterized by high blood glucose levels. The key risk factors for diabetes include a family history of diabetes, advanced age, obesity and lack of physical activity of an et al., 2023). Drugs such as steroids, some endocrine diseases and pancreatic diseases are also risk factors. Similarly, the World Health Organization described diabetes as a chronic disease that results when the pancreas does not produce enough insulin or the body cannot use the insulin produced effectively (World Health Organization: WHO, 2023). Diabetes mellitus poses significant challenges to patients reading to complications if not properly managed. Diabetes complications such/as cardiovascular, renal, peripheral vascular, ophthalmic, hepatic or neurological diseases are still commonly encountered (Ali et al., 2022). Furthermore, persons living with diabetes have been found to have higher rates of premature death, functional disability, stroke, coronary heart disease, accelerated muscle loss, and hypertension compared to those without diabetes (Lin et al., 2020). Thus. reduction in diabetes-related complications calls for effective diabetes self-management, including self-monitoring of blood glucose levels, suitable physical activity, healthy diet, self-foot checks and engagement with prescribed medication regimens (Li et al., 2022). These diabetes self management activities may be a challenging issue for elderly patients who may have general syndromes such as cognitive impairment, stress, incontinence and falls.

1.1 Aims and Objectives

This research paper aims to perform a critical review of prior research in nursing and allied health literature to comprehensively evaluate the effectiveness of community nursing programs in promoting self-management for elderly patients with diabetes mellitus. This paper will provide an in-depth analysis of the literature, and the resulting information can be used to design nurse-led community interventions to enhance self-management skills and empower patients to actively participate in their own care. The following objectives will be used to achieve the aim of this study:

Conduct an initial literature search to gather relevant research evidence

- Critically appraise the selected studies to assess their methodological rigor, validity, and reliability.
- Synthesize the findings from the selected studies to provide a comprehensive overview of the effectiveness of Community Nursing Programs in promoting self-management for elderly patients with diabetes mellitus
- Discuss the implications of the findings for clinical practice, policy development, and future

1.2 Dissertation Structure

research.

Dissertation Structure

This dissertation is organized into five chapters, exploring prior literature to assess the effectiveness of community nursing programs in promoting self-management for elderly patients with diabetes mellitus. Chapter one (introduction/background) provides an introduction and presents a background of DM prevalence in NK. There is also a literature review to support nurse-led community interventions to promote DM self-management among elderly patients. Chapter two (methods/methodology) contains a comprehensive review of the existing literature. It examines research studies on community-led nursing programs aiming to increase DM self-management. Chapter three (results/themes) highlights the key findings of the selected articles in relation to the research question. In chapter four (discussion), the findings and themes will be discussed in depth and synthesized. Finally, in chapter five (conclusion/recommendations), a summary of the main findings from the analysis and discussion will be presented. The chapter will also provide recommendations for further research and practical application.

Research question;

How can patients with DM be supported by Community-based Nursing Program?

Background

1.3 Prevalence of Diabetes Mellitus Globally and Locally

According to the WHO, approximately 422 million persons have diabetes, and the number continues to increase steadily (WHO, 2019). As a nurse working in a medical ward in Hong Kong, I have witnessed the increasing prevalence of diabetes mellitus among the elderly population. Currently, approximately 700,000 people in Hong Kong (HK) have diabetes mellitus, representing about 10% of the total population (Hospital Authority, 2023). Individuals with diabetes are at risk of developing various complications that can be lifethreatening, which can reduce their quality of life and increase their healthcare care

expenditures.		
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1.4 Diabetes Mellitus Care

In the year 2019/20, approximately 490,400 persons with DM were under care in specialist outpatient clinics (SOPC), general outpatient clinics (GOPC) and family medicine specialist clinics (FMSC). This is comparable to the year 2011/12, in which 158,000 DM patients were under outpatient care, equating to a 47.5% rise in 8 years. In 2019/20, 63.3% of DM patients were under the care of GOPC, while 36.7% were in SOPC or FMSC. As per the Hospital Authority (2021), a diabetes comprehensive assessment (DCA) is vital in the care of individuals with diabetes, and it encompasses a range of assessments that help evaluate patients' metabolic risk and detect potential complications that may not have silent symptoms, allowing for early intervention. The tests include glycated hemoglobin (HbA1c), low-density lipoprotein (LDL) cholesterol, serum creatinine, urine albumin, and smoking status. Figure 1.3 below compares the completion rates for this assessment in the UK, Europe and HK. There was a lower assessment completion rate of blood pressure and body mass index (BMI) in HK compared to other regions. Urine albumin had the lowest

completion rate across the three regions. The Hospital Authority (2021) further notes that in 2019/20, 52.4% of DM patients met an HBA1c level of less than 7%, which is optimal. Additionally, 63% of individuals with DM have their blood pressure under 140/90 mmHG, which was high compared to the United States. 18% of DM patients did not capture their blood pressure readings and were mostly under the care of SOPC or FMSC. Approximately 73.5% of patients in HK had their LDL cholesterol under 2.6 mmol/L. Hospital Authority (2021) recommends increasing preventive measures at the community

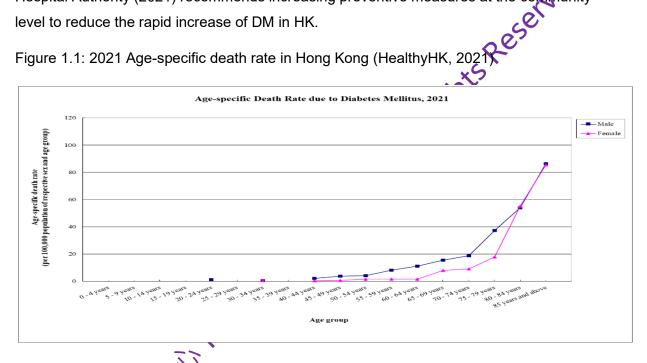


Figure 1.2: Number of DM patients in SOPC, FMSC and GOPC in Hong Kong (Hospital Authority,

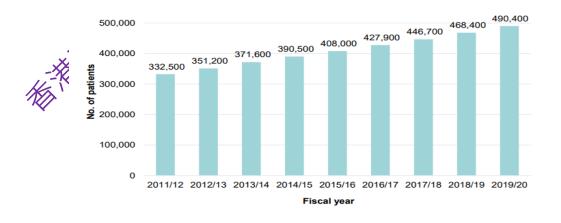


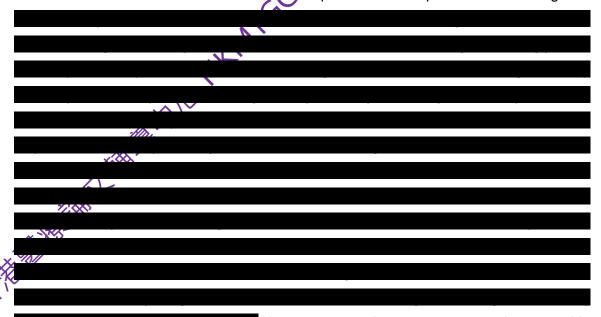
Figure 1.3: Assessment Completion Rate (Hospital Authority, 2021)

DCA items completion rate	HbA1c	Blood pressure	LDL cholesterol	Serum creatinine	Urine albumin	вмі	Smoking
The UK ³	95.2%	96.2%	92.5%	94.9%	65.6%	87.5%	95.3%
Europe ⁴	97.6%	98.3%	82.0%	85.2%	59.4%*	95.4%	46.6%^

The Healthcare Challenges in Hong Kong

1.5 Community support for DM Patients

it's Reserved Prior research shows that community setting is an important aspect of the prevention and treatment of diabetes (Guo et al., 2019). Diabetic patients require ongoing treatment, including medication and lifestyle modifications, to manage the progression of the disease. Due to its long-term nature and recurrent symptoms patients and families should have skills for self-monitoring and management to prevent hospitalization, morbidity and mortality due to manageable complications (Jarvis et al., 2010). Figure 1.3 above shows that HK had a lower diabetes assessment completion rate compared to the two regions.

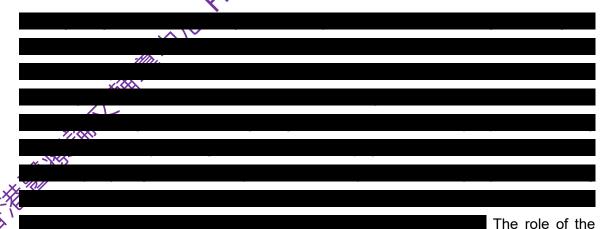


Nurses possess the necessary expertise to provide education, support, and guidance to patients, empowering them to take control of their condition and make informed decisions about their health. Nurse-led interventions, including home and phone visits, care coordination, and education on various aspects of diabetes management, such as knowledge improvement, physical activity enhancement,

and a proper diet, can enhance diabetes self-management among older patients. These community nursing programs are likely to enhance quality care because the patient will be properly assessed, served and referred for appropriate care. Furthermore, interventions such as home visits can provide a more detailed picture of the patient's health condition, thus facilitating holistic and proper care (Chan et al., 2017). The HK Nursing Code of Conduct and Practice calls for all nurses to promote health and well-Whis Reself being, prevent diseases, restore health and alleviate suffering due to diseases (Nursing Council of Hong Kong, 2015).

1.6 Community Nursing Services in Hong Kong

According to the Health Bureau (2023), Hong Kong is experiencing one of the most rapidly ageing populations, with the current average annual increase rate of persons aged 65 and above estimated at 4% from 2021- 2030. Ageing positively correlates with higher chronic diseases and increased health and social care needs. An ageing population and an increase in chronic diseases can heavily affective condary and tertiary care, especially in public hospitals. Health Bureau recommends shifting the centre of gravity of Hong Kong's healthcare system from treatment-oriented institutions to prevention-oriented familycentric care. A well-coordinated healthcare at the community level is likely to increase prevention, early diagnosis and management of chronic diseases.



community nursing service is to provide general nursing care, specialized nursing care, health education and home rehabilitation services. The community geriatric team also plays an important role in visiting residential elderly care homes to provide multidisciplinary services and community-based rehabilitation programs. The community psychogeriatric team provide designated care and rehabilitation program.

Summary

Diabetes mellitus is a chronic disease characterized by raised blood glucose levels, and it poses significant challenges to patients, leading to various complications if not properly managed. With approximately 10% of the total population in HK being affected by DM/the disease presents a significant public health concern. Elderly patients with DM may encounter specific challenges in self-management due to geriatric syndromes such as cognitive impairment, stress, incontinence, and falls. These factors further emphasize the importance of tailored interventions and support to enable effective self-management. Nurse-led community interventions have shown promise in promoting self-management among elderly patients with DM. Community health centers in HK already play a crucial role in providing screenings, education, checkups, and interventions. However, with the rising number of DM patients, a multidisciplinary team approach involving nurses, doctors, and nutritionists is essential to prevent and manage complications at the community level effectively. The subsequent chapters will deive into the existing literature to assess the effectiveness of community nursing programs in promoting self-management among mellin HA elderly patients with diabetes mellitus?"

Chapter Two: METHODOLOGY AND METHOD

2.1 Introduction

This chapter outlines the methodology and methods used in this research study. It will provide an overview of the search strategy utilized to locate current articles and relevant research related to the ways in which elderly patients with DM can be supported by Community-based Nursing Programs to enhance self-management. The search strategy will identify and retrieve peer-reviewed articles from various literature sources to address the research question and the PICO components. The section will address the following aspects: the literature search process, databases used, search terms employed, inclusion and exclusion criteria, critiquing framework, and data analysis method.

2.2 Quantitative and Qualitative Research

A mixed methodology encompassing qualitative and quantitative evidence will be used to answer the research question and objectives of this paper. This approach will allow for a comprehensive understanding of how elderly patients with diabetes mellitus can be supported by Community-based Nursing Programs to enhance self-management. Thus, combining quantitative and qualitative approaches can provide a more holistic understanding of complex health systems research questions.

2.2.1 Qualitative Evidence

A qualitative study uses qualitative methods, that is, narrative descriptions, which can be obtained through various ways such as conversations or interviews, observations, focus groups, and obtaining narrative records such as diaries (Polit & Beck, 2021). Synthesizing evidence from qualitative research will allow the researcher to obtain information from studies that have comprehensively analyzed the lived experiences of the participants to obtain detailed information that goes beyond numerical data. Rather than focusing on quantifying relationships or testing causal relationships, qualitative research seeks to identify patterns of association and illuminate the underlying meaning and dimensionality of phenomena. By identifying interconnected themes and processes, researchers gain a holistic understanding of the self-management practices of elderly patients with diabetes.

2.2.2 Quantitative evidence

In quantitative research, researchers use deductive reasoning to generate predictions that are tested in the real world. They use control strategies and empirical evidence to collect and obtain information about the problem under study. Studies utilizing quantitative methods will be included in this review because quantitative research methods allow for the collection of numerical data, which can be measured, standardized, and analyzed using statistical techniques (Noyes et al., 2019). This approach provides researchers with objective and replicable information about the variables under investigation. Additionally, quantitative methods are vital in addressing specific research questions that require measurement, comparison, and statistical analysis. Quantitative data can help identify the magnitude of certain phenomena, assess the impact of interventions or programs, and systematically examine relationships between variables.

2.3 Search Strategy:

Online databases, CINAHL and PubMed, were systematically searched to identify relevant articles to answer the research question, "how can patients with DM be supported by Community-based Nursing Program?" Additional papers were identified on a manual search of the reference list of studies that met the PICO framework. The strategy utilized Boolean operators "AND" and "OR" to combine search terms. These are connecting words that researchers use to find relevant research. "AND" is used to obtain evidence containing both search terms, while "OR" helps retrieve studies with either search terms. Figure 2.1 shows key terms used to search through CINAHL and PubMed.

Figure 2.1: Boolean Operators

7.	Search Index	Search terms
- A.	Title /	Elderly OR aged OR seniors OR
	Abstract/full	geriatrics
/XX	text	
AND	Title /	Diabetes mellitus, type 2 Diabetes, T2DM,
	Abstract/full	DM self-management OR DM self-care
	text	OR DM management at home

AND	Title /	Community-based nursing program OR
	Abstract/full	community interventions OR nursing
	text	interventions in the community OR nursing
		programs
AND	Title /	Self-management OR self-care OR
	Abstract/full	disease management
	text	Nes

Inclusion and Exclusion Criteria:

A search was conducted using different combinations of keywords to identify relevant articles addressing the question, "How can patients with DM be supported by a Community-based Nursing Program?" The search process yielded a total of 101 articles from CINAHL and 143 articles from PubMed, inclusion criteria included peer-reviewed articles, either qualitative or quantitative written in English, and articles published less than 15 years. Articles that focused on the support and care of patients with DM through community-based nursing programs were also included. Furthermore, articles that discussed the role of community-based nursing interventions, strategies, and nurse-led community programs to enhance DM self-management were included. Finally, articles that provided evidence-based practices for enhancing patient support and outcomes in community-based settings were also considered. Figure 2.2 PRISMA flowchart of study selection from the two databases.

2.4 Critiquing Framework:

In order to assess the quality and rigor of the selected articles, two critiquing frameworks were employed for the quantitative and qualitative articles. The frameworks chosen were the critical Appraisal Skills Programme (CASP) randomized controlled trial standard mecklist for the quantitative articles and the CASP qualitative checklist for the qualitative articles. The CASP frameworks are widely recognized and used for critically appraising research studies. CASP randomized controlled trial standard checklist contains 11 questions in a 'yes' or 'no' format, and it provides a structured approach to assess the validity of the study design for a randomized controlled trial (RCT), methodology, results, and transferability of the findings. The CASP qualitative checklist that will be used to evaluate the quality and trustworthiness of the qualitative research studies selected

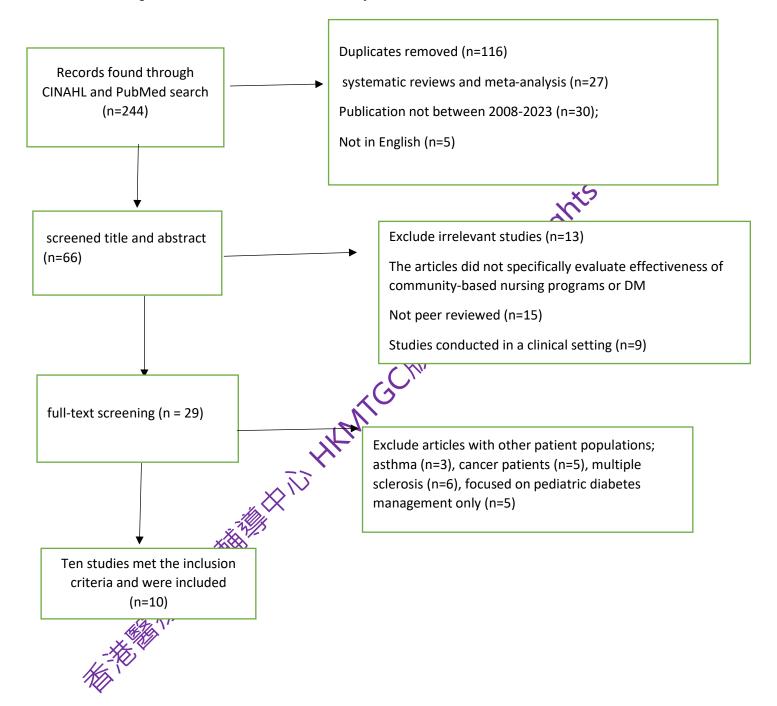
contains ten questions (Long et al., 2020). The checklist helps ensure that the qualitative studies included in the research are rigorous valid, and provide meaningful insights into the phenomenon being studied.

2.5 Data Analysis Method

Thematic analysis will be used to analyze the data extracted from the selected articles. Thematic analysis involves identifying and exploring patterns, regularities, inconsistencies, and gaps within the collected information from the retrieved studies. This method allows for the identification of important themes that emerge from the literature (Polit & Beck, 2021). The researcher will organize and categorize the data ad inanage.

I have the state of the state o obtained based on recurring ideas, concepts, or topics that address the effectiveness of Community-based nursing programs in promoting self-management for elderly patients with diabetes mellitus

Figure 2.2 PRISMA flowchart of study selection



Chapter Three: RESULTS/THEMES

3.1 Introduction

In the previous chapter, the methods and methodology used in this study were discussed, focusing on qualitative and quantitative evidence and inclusion and exclusion criteria. A total of ten most relevant articles were carefully selected for further analysis and synthesis to answer the research question of how patients with DM can be supported by community-based nursing programs to improve self-management. The CASP randomized controlled trial standard checklist and CASP qualitative checklist were selected as the critique frameworks for the ten articles. The current chapter presents the results and themes derived from the analysis of the ten articles. The aim is to examine the effectiveness of community-based nursing programs in promoting self-management among elderly patients with diabetes mellitus and answer the research question, "How can patients with DM be supported by community-based nursing programs?"

3.2 List of selected papers

Figure 3.1 presents the ten articles with homogenous results showing that community-based nursing programs effectively promote DM self-management among elderly patients. The articles are arranged by date, from the most current to the oldest. Figure 3.2 summarizes the ten articles, including authors, setting, the objective of the study, sample research design, results, implications, and conclusion.

Figure 3.1: List of selected papers

	/ (X /)	
No.	Researcher	Title
	(Year)	
1.	Yous et al. (2023)	Older Adults' experiences and perceived impacts of the Aging, Community, and Health Research Unit-Community Partnership Program (ACHRU-CPP) for diabetes selfmanagement in Canada
16 2X		Effectiveness of a nurse-led community-based self- management program among adults with diabetes-family dyads in Ethiopia.
3.		The Effect of Care Provided at Home by Public Health Nurse on Control of Type II Diabetes Mellitus.
4.		Effectiveness of a community-based self-care promoting program for community-dwelling older adults

5.	Community Program Improves Quality of Life and Self- Management in Older Adults with Diabetes Mellitus and Comorbidity.
6.	Community Health Workers Versus Nurses as Counselors or Case Managers in a Self-Help Diabetes Management Program
7.	The Effect of a Community-Based Self-Help Intervention: Korean Americans With Type 2 Diabetes
8.	Tailored Case Management for Diabetes and Hypertension (TEACH-DM) in a community population
9.	Teletransmitted monitoring of blood pressure and bilingual nurse counseling sustained improvements in blood pressure control during 12 months in hypertensive Korean Americans.
10.	Effectiveness of a self-efficacy program for persons with diabetes

Jans With

Je Managem

Jion (TEACH-DM)

Jonsmitted monitoring

Je counseling sustained in

Jones Jane

Americans

Effectiveness of a self-efficacy

diabetes

All Park

Figure 3.2: Summary Grid

Researcher	Aim	Sample	Intervention	Research design	Results	Nursing
(Year)					رق.	implications
Yous et al.	This research aimed	Community	The intervention	Qualitative	The participants	This research
(2023)	to assess the	living older	included home and	descriptive	reported positive	highlights the
	experiences and	adults (65+	phone visits, care	142	experiences with	importance of
	perceived impacts of	years) with	coordination,	. 6	the program,	community-based,
	the ageing,	diabetes and at	system navigation	510	which improved	person-centered
	community, and	least w other	support, caregiver	descriptive	diabetes self-	interventions and
	health research unit-	chronic illness (n	support, and		management,	collaborative care
	community	= 45)	welliess sessions /	(A)	including	delivery to support
	partnership program		delivered by a	Y	improved	self-management and
	from the perspectives		nurse, dietitian, or		knowledge,	connect older adults
	of older adults with		nutritionist		enhanced	with available health
	diabetes and other		C KINY		physical activity,	and social services.
	chronic diseases.		ζ,		and proper eating	
			70		habits.	
	This study purposed	Adults with type	The education	RCT	The results show	Nurses can
	to examine the	2 diabetes in the			a statistically	implement
	preliminary effect of	community of	entailed a brief		significant	community-based
	a nurse-led	Nekemte, 33	introduction about		difference	diabetes self-
	community-based	Ethiopia $(n = 73)$	diabetes,		between the two	management
	diabetes self-	-2011	misconceptions,		groups. For	education and
	management	XXXXX	physical activity,		example, there	support to enhance
	education and	(WK)	healthy eating,		was higher	self-management
	support.		medication		family support	practices and family
	Support.	′	adherence, blood		provided among	support among
	An-di		glucose self-		families in the	elderly patients with
	6676		monitoring, healthy		intervention	diabetes.
	XX (V)		coping, and risk		group compared	
	1/2-XV)		reduction. The		to the control	
	· · · · · · · · · · · · · · · · · · ·		intervention was		group.	

		1.1: 1: 4		_	
		delivered in the		>	
		community of		100	
		Nekemte City,		cerved	
		Ethiopia, by nurses.		<u> </u>	
The study aimed to	The sample was	The intervention	Mixed	The result shows	This study will help
examine the effect of	n=40	included seven	methodology:	that, in the	nurses understand
home care provided		home visits to the	Quantitative and	intervention	the importance of
for patients with type		experiment group	qualitative methods	group, 75% of	providing thorough
2 diabetes by a public		and two home	qualitative methods	the patients	education and
health nurse.		visits for the	11/2	started to use	training to patients
		control group.	∇_{I}	insulin properly,	on proper insulin
		During the first	^	unlike in the	administration and
		visit for the control	Y'	control group,	patient-centered
		group, the nurse		where there was	education on
		collected HbA		no observed	diabetes self-
		and there was no		difference	management
		intervention. For		between pre- and	in in its and
		the experiment		post-study. All of	
		group, there was		the participants	
		comprehensive data		in the	
		collection, and		intervention	
		patients were		group developed	
	N. N.	educated and		a habit of	
	, X ,	trained to adhere to		tracking their	
	WIN TO A	nutrition, exercise		_	
	XXXXXX	· · · · · · · · · · · · · · · · · · ·		blood glucose, unlike in the	
,	₹, ₩,	plan, drug use, and			
	+	blood glucose		control group.	
771	011 11 (60)	monitoring.	D.C.T.	TT1 1, 1	TD1 ' 1
This study aimed to	Older adults (60+	The intervention	RCT	The results show	This study suggests
determine whether a	years) who were	included		that the	that community-
community based	cognitively	assessment and		community-	based self-care
self-care promoting	competent to	education on self-		based program	programs, supported
program for	perform self-care	care and health-		was able to	by interdisciplinary

	T			T		
olde incre effic life, daily med adhe heal utili	er adults can ease self- eacy, quality of activities of y living, and lication erence and reduce th service zation rate.	activities (n=457) The participants were selected from multiple districts in Hong Kong		All Rights I		partnerships, can enhance older adults' self-efficacy, quality of life, activities of daily living, and medication adherence and reduce healthcare service utilization, providing a framework for designing effective nursing interventions.
reserved a 6-1 com a 6-1 com interpretation of using the second of using the second of	aim of this arch was to apare the effect of month amunity-based rvention with that sual care on self-tagement, self-tagement, self-tagement, self-tagement, self-tagement, and the care cost in the radults with type abetes mellitas.	Community-dwelling older adults (65+ years) with type 2 diabetes mellitus and two or more comorbidities (n = 159) The setting was dour communities in Ontario, Canada	A customized self-management program was designed with up to 3 in home visits from registered nurses and registered dietitians	Multisite, pragmatic RCT - combined qualitative and quantitative analysis	The findings indicate that compared to the control group, the intervention group demonstrated significant improvements in mental component score, self-care behaviors, and depressive symptoms. However, no significant group differences were observed in the	This research will help nurses consider implementing a community-based intervention focused on self-management education and support to improve the quality of life and self-management practices of older adults with T2DM and comorbidity.

aimed to test the effectiveness of community-based multimodal self-help interventions among Korean Americans with type 2 diabetes. unco diab 35-8 the H Was metr (n =	Ider adults with acontrolled abetes, aged 5-80 years in e Baltimore-rashington etropolitan area = 209) Registered nurses and community health workers delivered the intervention, and it involved educating or training the participants with a special focus on the etiology of diabetes, diett exercise medication and stress management, and diabetes health literacy. After this education intervention, the nurses and community health workers did a monthly follow-up through telephone counseling.	physical component score, anxiety, self-efficacy, or total dealthcare costs. RCT The results of the effectiveness of the intervention delivered by the nurses and community health workers showed no significant difference, and actually, community health workers performed as well as or better than nurses as counselors in a self-help diabetes management program.	The study suggests that community health workers can be effective counselors or case managers in self-help diabetes management programs in Korean-American communities, achieving comparable or better outcomes than registered nurses in terms of psychobehavioral and physiological outcomes, particularly hemoglobin A1C reductions.
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This study aimed to assess the effectiveness of a community-based, culturally tailored, multimodal behavioral intervention program in patients with type 2 diabetes.	Korean Americans with type 2 diabetes (n = 250)	A team of registered nurses and community health workers delivered an education intervention consisting of self-management skill building followed by counseling and coaching in a naturally occurring community setting.	RCT RCT RCT	The result showed that the intervention group had a higher reduction in hemoglobin A1c compared to the control group.	The study indicated that implementing RN/community health worker teams with culturally tailored training can effectively assist ethnic/linguistic minority groups in managing diabetes in the community.
This study sought to investigate the effectiveness of a behavioral intervention among community patients with poorly controlled diabetes and comorbid-hypertension.	Patients with poorly controlled type 2 diabetes (n = 377)	The study evaluated telephone-delivered behavioral interventions administered by nurses, and the target was to cultivate healthy behaviors for diabetes and hypertension control, provide support for the adoption of healthy behavior, and identify and correct	RCT	As per the results, both groups had elevated baseline levels of HbA1c, but compared to the control group, the intervention group demonstrated statistically significant reductions in HbA1c.	The practical nursing implication is that implementing such intervention programs can lead to better management of diabetes in the community,

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			healthy behavior.			
	Kim et al. (2011)	Middle-aged	This community	RCT	A significant	Nurses can utilize
	sought to examine	patients aged 40-	nurse-led		increase in BP	the findings of this
	the sustainability of a	64 years (n =	intervention was a		control rates was	research to support
c	community-based	359) Korean	six-week	, V	evident in the	patients in managing
11	ifestyle modification	Americans	behavioral	XX	control group,	their hypertension
e	educational program	residing in the	education followed		suggesting the	and potentially
d	delivered through	Baltimore-	by home	010)	effectiveness of	reduce the risk of
to	elephone self-BP	Washington	telemonitoring of		home	complications
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V	Wu et al. (2011)	(n = 145)	The intervention	RCT	There was a	Nurses can utilize
a	aimed to evaluate the		included the		significant	the knowledge
e	effect of self-efficacy		standard diabetes		improvement in	obtained from this
	programs on persons		education program		the outcome	study to implement
v	with type 2 diabetes		and an additional		measures,	self-efficacy
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3.2 Emerging Themes

3.2.1 Improved diabetes self-management in older patients The articles emphasize the crucial role of nurses in providing education to patients with DM. The Aging, Community, and Health Research Unit-Community Partnership Program (ACHRU-CPP) implemented by Yous et al. (2023) involved home and phone visits, system navigation support, care coordination caregiver support, and group wellness sessions delivered by a nurse, nutritionist, or a dietitian. This program had a positive impact on older adults with diabetes, including improved knowledge in managing diabetes and chronic conditions, enhanced physical activity and function, improved eating habits, opportunities for socialization, and connection to community resources to support self-management

3.2.2 Behavioral and Lifestyle Interventions promote positive changes in diabetes self-management:

Wong et al. (2019) wim et al. (2011), and Markle-Reid et al., 2017) highlight the effectiveness of behavioral interventions delivered through telephone counseling by nurses.

3.2.3 Home visits enable individualized patient care and empower selfmanagement:

nome visits are crucial in community-based nursing programs for elderly patients with
diabetes. This is because elderly patients may have mobility or transportation
challenges, thus hindering their access to health facilities, which may negatively impact
their self-care.
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3.2.4 Culturally tailored interventions promote diabetes self-management within minority groups:

Culturally tailored multimodal behavioral interventions delivered by registered nurses and community health workers can effectively assist ethnic/linguistic minority groups in managing diabetes in the community (You's et al., 2023; Diriba, 2020; Kim et al., 2015).

3.2.5 Interdisciplinary collaborations play a positive role in supporting diabetes self-management:

Community-based self-care programs, supported by interdisciplinary partnerships involving registered nurses, social workers, and community workers, can enhance self-efficacy, quality of life, activities of daily living, and medication adherence and reduce healthcare service utilization (Markle-Reid et al., 2017; Kim et al., 2016 and Kim et al., 2015).

3.2.6 Long-term follow-up and continuity of care ensure sustainable support for diabetic patients:

Studies such as Kim et al. (2011) and Wu et al. (2011) highlight the significance of follow-up and continuity of care in managing diabetes. These interventions involved home telemonitoring of blood pressure and self-efficacy programs, and they showed positive outcomes in terms of improved self-care activities and reduced hospitalizations or emergency room visits.

Conclusion

The findings emphasize the crucial role of nurses in providing education, support, and personalized care to patients with DM. Nurse-led education and support, including home visits, have shown positive impacts on diabetes self-management, knowledge improvement, physical activity promotion, and healthy eating habits. Behavioral interventions, such as telephone counseling and self-monitoring, have effectively promoted healthy behaviors and supported self-management practices. Culturally tailored interventions and interdisciplinary partnerships have successfully assisted diverse populations in managing diabetes in the community. Long-term follow-up and continuity of care have also been highlighted as important factors in improving self-care and reducing hospitalizations. In conclusion, the articles provide evidence that community-based nursing programs offer valuable support for patients with DM, addressing their educational, behavioral, cultural, and long term care needs. Therefore, Jem Jograms the findings answer the research question by demonstrating the effectiveness and importance of community-based nursing programs in supporting patients with DM.

Chapter four: DISCUSSION

4.1 Introduction

The previous chapter presented the summary of the ten articles identified in the search to answer the research question, "How can patients with diabetes mellitus be supported by a community-based nursing program?" The chapter also presented the results and themes that emerged from the thematic analysis of the articles. In this chapter, there will be a detailed discussion of the themes, exploring their meaning and implications as well as their relevance to the research question. Additionally, the chapter will explore the potential benefits of the findings for patients, their families healthcare professionals, and organizations. Furthermore, the chapter will address the relationship between the themes and the ideas that emerged in the background literature. Ethical implications, limitations of the study, the need for further research, and the researcher's personal insights and growth will also be discussed.

4.2 Discussion of Themes

4.2.1 Improved diabetes self-management in older patients:

One of the themes that emerged is the role of nurse-led education and support in facilitating self-management for patients with diabetes in the community, and it holds a significant meaning in the context of community-based nursing programs. The studies highlighted the positive impact of nurse-led interventions, including home and phone visits, care coordination, and education on various aspects of diabetes management, such as knowledge improvement, physical activity enhancement, and a proper diet (Yous et al., 2023; Diriba, 2022; Bulucu-Büyüksoy & Karataş, 2020; Kim et al., 2016; Kim et al., 2015; Crowley et al., 2013; Wu et al., 2011). These studies highlighted the importance of community-based, patient-centered interventions to enhance diabetes self-management in older adults.

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level education interventions delivered by a team of healthcare professionals, including registered nurses, registered nurse case managers, trained and certified social worker, community health workers, or dietitian are effective in promoting self-management among patients with diabetes mellitus (Yous et al., 2023; Diriba, 2022; Bulucu-Büyüksoy & Karataş, 2020; Wong et al., 2019; Markle-Reid et al., 2017; Kim et al., 2016; Kim et al., 2015; Crowley et al., 2013; Kim et al., 2011 and Wu et al., 2011). This shows that different healthcare professionals can effectively deliver educational interventions diabetes self-management in the community The Code of Ethics and Professional Conduct for Nurses (encourages nurses to collaborate with others in initiating and supporting actions to meet the health and social needs of the public (Nursing Council of Hong Kong, 2015). Thus, nurses can work closely with community health workers to jointly develop and implement educational programs, support groups, and interventions aimed at promoting self-management. 4.2.2 Behavioral and Lifestyle Interventions promote positive changes in diabetes self-management: Another significant memory and lifestyle

Another significant theme that emerged is the effectiveness of behavioral and lifestyle interventions in community settings. This encompasses a range of strategies aimed at empowering patients to adopt and maintain healthy behaviors, such as regular physical activity, balanced nutrition, and stress management. The studies by Wong et al. (2019), Kim et al. (2011), and Markle-Reid et al. (2017) emphasize the importance of teaching patients self-care for health maintenance, including medication adherence, blood pressure-related education, building patients' self-care confidence and setting goals and caregiver engagement.

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4.2.3 Home visits enable individualized patient care and empower self-
4.2.3 Home visits enable individualized patient care and empower self- management: Home visit is a crucial component of community-based nursing programs for elderly patients with disperse, as supported by the articles reviewed. Home visits entail regularly
Home visit is a crucial component of community-based nursing programs for elderly
patients with diabetes, as supported by the articles reviewed. Home visits entail regularly
visiting elderly patients at their homes to conduct relevant assessments, and provide
patient education and training on various aspects of diabetes self-management (Yous et
al., 2023; Bulucu-Büyüksoy & Karataş, 2020; Woog et al., 2019 and Markle-Reid et al.,
2017). The significance of home visits lies in their ability to consider the unique needs of
patients, encourage treatment adherence, promote self-care practices, and increase
patient autonomy. Other literature also recommends home visit programs as they have
been found to improve the quality of life, self-management, and HbA1c levels of older
adults with diabetes (Han et al., 2017).
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4.2.4 Culturally tailored interventions promote diabetes self-management within minority groups:

Culturally tailored interventions also emerged as an important theme in the discussion. This theme highlights the need for cultural sensitivity and responsiveness in designing interventions that effectively support minority groups. In the article by Yous et al. (2023), one of the emerging themes related to the patient's experience with ACHRU-CPP was that ethnic/cultural differences were addressed through personal sessions, enabling improved diabetes self-management. This finding suggests that tailoring interventions to align with patients' cultural identities and experiences can enhance their engagement, understanding, and ability to manage their diabetes effectively.

4.2.5 Long-term follow-up and continuity of care ensure sustainable support for diabetic patients:

Lastly, the theme of long-term follow-up and continuity of care emphasizes the role of ongoing support and consistent healthcare provision through community-based programs for patients with diabetes mellitus. Managing diabetes is a complex and lifelong journey that requires continuous monitoring, education, and intervention (Carpenter et al., 2018). Kim et al. (2011) and Wu et al. (2011) highlighted the positive outcomes associated with long-term follow-up and continuity of care interventions. These interventions involved home telemonitoring of blood pressure and self-efficacy programs, respectively. The findings of these studies indicated that such interventions contributed to improved self-care activities, reduced hospitalizations, and decreased emergency room visits among patients with diabetes.

43 Implications for Practice:

The articles critiqued show the importance of implementing community-based person-centered interventions and collaborative care delivery (Yous et al., 2023; Diriba, 2022; Kim et al., 2016; Crowley et al., 2013; Wu et al., 2011). Nurses can use these findings in their nursing practice to promote and advocate for community-based programs that

focus on diabetes self-management education and support for older adults. The articles also emphasized the role of collaborative efforts among nurses, community health workers, social workers, case managers, and dietitians. The interdisciplinary team can use the findings to develop and deliver educational interventions that enhance self-management practices among elderly patients with diabetes. The educational intervention may entail proper insulin administration, healthy eating habits, physical activity, medication adherence, and blood glucose monitoring, and it can be delivered through home visits, training in community spaces, telemonitoring, and telephone counseling. Thus, nurses can collaborate with the interdisciplinary team to schedule visits with elderly diabetes patients to provide education on self-management practices, assess their health status, and refer them to resources and appropriate services.

The research suggests that community-based interventions can improve the quality of life, self-efficacy, activities of daily living, and medication adherence and reduce healthcare service utilization (Markle-Reid et al., 2017; Wong et al., 2019). This provides nurses with a framework to design effective nursing interventions that focus on promoting healthy eating habits, physical activity, medication adherence, and stress management techniques for older adults with diabetes. This will enable nurses to support self-management and connect older adults with available health and social services.

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The findings of this research build upon the existing knowledge regarding the importance of personalized care, patient education, and ongoing support for individuals with diabetes mellitus. They reinforce the notion that community-based nursing programs should address the unique needs of patients, incorporate culturally sensitive approaches, and prioritize long-term care to promote effective self-management and positive health outcomes.

4.4. Benefits to Patients, Families, Professionals, and Organizations:

The study findings indicate that patients and their families can obtain self-management skills as a result of community-based nursing programs. This is possible through interventions such as home visits and culturally tailored education, through which patients gain a better understanding of diabetes self-care practices, including proper nutrition, exercise, medication adherence, and blood glucose monitoring. The enhanced skills and knowledge empower patients to take an active role in managing their condition, leading to better glycemic control and overall well-being (Yous et al., 2023; Bulucu-Büyüksoy & Karataş, 2020; Wong et al., 2019; Markle-Reid et al., 2017).

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	Organizations implementing community-

based nursing programs can expect improved patient satisfaction, reduced

rehospitalizations, and better utilization of healthcare resources (Markle-Reid et al., 2017). Thus, organizations implementing such programs can expect a more effective and sustainable use of healthcare resources, ultimately benefiting both patients and the healthcare system as a whole.

4.5. Need for Further Research:

While this study provides valuable insights into supporting patients with diabetes mellitus through community-based nursing programs, further research is needed. Specifically, there is a need for longer-term studies to evaluate the sustainability of interventions and their impact on long-term health outcomes (Wu et al., 2011). Further research could also be conducted using qualitative research studies to gain comprehensive insights into the experiences and perspectives of patients receiving community support. Qualitative research studies would allow a deeper understanding of the factors influencing patients' engagement in self-management and their perceptions of the support provided by community nurses. Additionally, exploring the cost-effectiveness of these programs and assessing the experiences and perspectives of patients, families, and healthcare professionals could provide a more comprehensive understanding of their effectiveness.

4.5 Ethical Implications:

From an ethical perspective, the findings of this study have crucial implications for both organizational and clinical practice. Patients place their trust in healthcare professionals and organizations to provide them with the highest standard of care, particularly when it comes to managing a chronic condition like diabetes mellitus. Clinical teams and organizations have a legal and ethical responsibility to deliver care that is guided by knowledge, policies, and skills (Thomas et al., 2015).

This

critical review mostly utilized randomized controlled trials (RCTs) as a source of evidence. RCTs are ranked at the highest level of the hierarchy as they are designed to

be unbiased with fewer systematic errors, hence providing high-quality evidence (Burns et al., 2011). Thus, since this research predominantly relied on RCT as a source of evidence, the findings carry greater weight and credibility in guiding clinical practice and decision-making.

4.5 Limitations of the Study:

The researcher encountered challenges in finding articles that specifically addressed and the PICO components. There were limited numbers of studies that explicitly investigated the exact effectiveness of community-based nursing programs in promoting self-management for elderly patients with diabetes mellitus. For example, some studies focused on community-based nursing programs but did not specifically target elderly patients or diabetes mellitus. Other studies addressed self-management for diabetes mellitus but did not specifically evaluate the effectiveness of community-based nursing programs. Another limitation relates to the fact that this research was the first time the researcher conducted a comprehensive literature review. I acknowledge the limited experience and challenges in selecting appropriate articles and conducting a proper critique.

Conclusion:

This research shed light on important aspects of care delivery and the role of healthcare professionals in improving patient outcomes through community-based interventions. As per the findings, community-based nursing programs are effective in promoting self-management among eldeny patients with diabetes mellitus. The use of nurse-led education and support, behavioral and lifestyle interventions, home visits, culturally tailored interventions, and long-term follow-up and continuity of care has been found to improve knowledge, self-care activities, glycemic control, and quality of life and reduce healthcare service utilization. As a researcher, this study has deepened my understanding of the complexity of diabetes management and the critical role that community-based nursing programs play in supporting patients. I have gained valuable insights into the diverse strategies and interventions that can be employed to address the unique needs of patients with diabetes. The next chapter will present the overall conclusion and recommendations.

Chapter five: CONCLUSION AND RECOMMENDATIONS

Chapter four delved into a detailed discussion of the identified themes, their meaning, and implications. Chapter five will focus on drawing broad conclusions from the dissertation, focusing on the identified themes. The chapter will outline the desired outcomes resulting from the research as well as the feasibility and practicality of the ideas presented in the research. Lastly, the chapter will discuss the prioritization of recommendations based on their potential impact.

5.1 Conclusion:

Diabetes mellitus, a significant lifestyle disease, affects an estimated 10% (approximately 700,000 people) of Hong Kong's total population. Moreover, global statistics indicate a steady rise in the number of individuals living with diabetes, reaching approximately 422 million worldwide. Despite the high prevalence of diabetes, studies such as those conducted by Liu et al. (2022) shows that blood glucose control is still suboptimal. A survey conducted by the Hospital Authority (2021) compared the rate of diabetes comprehensive assessment in three countries, including HK, UK, and Europe. The survey evaluated a range of tests, including HbA1c, LDL, serum creatinine, urine albumin, and smoking status. Compared to other regions, HK had a significantly lower assessment completion rate compared to other countries. As a recommendation, the Hospital Authority (2021) advicates increasing preventive measures at the community level to reduce the rapid increase in the incidence of diabetes mellitus



The central focus of this dissertation was to answer the research question, "**How can** patients with DM be supported by community-based nursing program?" Prior research revealed that community health centers in Hong Kong play a significant role in promoting diabetes self-management through health education and follow-up care. The Health Bureau (2023) has recognized the rapidly aging population and has emphasized the need to shift toward prevention-oriented, family-centric care. Community nursing services in Hong Kong play a crucial role in providing individualized care at home, reducing hospitalization frequency, and improving patients' quality of life. These services encompass community psychiatric nursing, general and specialized nursing care, and community-based rehabilitation programs, contributing to improved chronic disease management in the community. With the high prevalence of diabetes and the increase in the number of older persons with poorly controlled diabetes, there is a need for a multidisciplinary team approach to effectively enhance diabetes self-management at the community level. Nurses have the expertise, skills, and knowledge to provide support, education, and guidance to patients to empower them to take control of their health. Nurse-led interventions at the community level, such as home and phone visits, care coordination, and education on various aspects of diabetes management, such as knowledge improvement, physical activity enhancement, and a proper diet, are likely to enhance diabetes self-management among older persons.

Through a critical literature review, ten relevant articles were selected and critically appraised using a critical appraisal skill program to identify their strengths and weaknesses. The thematic analysis revealed the effectiveness of community nurse-led programs such as home visits, phone calls, education, and care coordination in promoting self-management among elderly patients with diabetes mellitus

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their ability to manage diabetes effectively (Bulucu-Büyüksoy & Karataş, 2020; Markle-

Reid et al., 2017 and Kim et al., 2015). Long-term follow-up and continuity of care interventions contribute to improved self-care activities and reduced hospitalizations among patients with diabetes (Kim et al., 2011; Wu et al., 2011). Overall, all the ten articles that were evaluated suggest that community-based nursing programs play a crucial role in empowering patients to adopt healthy behaviors and promote self-care practices.

5.2 Recommendations

After a comprehensive literature review, this dissertation supports the integration of community nurse-led programs as a key strategy to promote diabetes self-management among elderly patients with diabetes mellitus. As earlier highlighted, Hong Kong is facing various healthcare challenges characterized by a rapidly aging population and increasing prevalence of chronic diseases, which calls for a new shift from a focus on treatment to prevention. In Hong Kong, the primary healthcare system plays a vital role in providing accessible, community-based healthcare services to the population. Primary healthcare (PHC) acts as a gateway to specialized care by managing, maintaining, and enhancing the population's health at the community level (Chow et al., 2023). The development of District Health Centres (DHCs) is one of the ways in which the primary healthcare system is adapting to meet the changing demands of communities and improve healthcare accessibility. Therefore, integrating community nurse-led programs within the framework of PHC and DHCs could be a practical and effective approach to supporting diabetes self-management among elderly patients.

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recommendation is the designing and implementation of culturally tailored interventions to cater to the diverse population in Hong Kong. Additionally, there should be development of interventions to ensure the long-term sustainability of the program. This may involve developing evidence-based guidelines and protocols, establishing mechanisms for regular follow-up and continuous support, and fostering partnerships between the government, community healthcare facilities, community healthcare staff, patients, and families. Also, there should be public awareness and education campaigns discussing the benefits of community nurse-led programs to reduce stigma, increase patient acceptance of the program, and encourage greater utilization of available healthcare services.

Community nurse-led programs can be implemented through a step-by-step approach. Firstly, further research should be conducted to assess the effectiveness of community nurse-led programs for diabetes self-management among elderly patients in Hong Kong. This research should involve rigorous evaluation of existing programs and interventions availed through the Hospital Authority and the Department of Health. Secondly, If the

stakeholders, including policymakers and healthcare professionals, to ensure buy-ins. The third step will be to promote collaboration between different healthcare providers community level. It is also important to ensure that nurses are adequately trained to deliver effective diabetes self-management education and support. Launching public

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Appendix

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	uanoing the heliovability of the receased
	uencing the believability of the research
Writing style	The writing style of the article is clear and concise, with a coherent flow of information.
Author	The article lists the authors' names along with their affiliations,
	which provide insight into their positions and qualifications. It is
	evident that the authors come from diverse backgrounds with
	expertise in primary care, qualitative research, aging,
	community-based interventions, and diabetes research. The
	involvement of patient and public research partners in study
	design and interpretation enhances the credibility of the
	research.
Report title	The title is clear and reflects the main focus of the study. It
report title	effectively conveys that the research explores older adults'
	experiences and perceived impacts of the ACHRU-CPP for
	diabetes self-management.
Abstract	The abstract provides a comprehensive summary of the study,
Abstract	covering the objectives, design, setting, participants, methods,
	and key findings. It concisely presents the research problem and
	the impact of the ACHRU-CPP program on older adults with
	diabetes and other chronic conditions.
Elements infl	uencing the robustness of the research
Statement of	The phenomenon of interest, which is the experiences and
the	perceived impacts of the ACHRU-CPP for diabetes self-
phenomenon	management in older adults, is clearly identified in the article's
of interest	title, abstract, and introduction.
Purpose/sign	The purpose of the study is clearly identified in the introduction,
ificance of	and the significance of the research is highlighted in addressing
the study	the complex needs of older adults with diabetes and multiple
the statement	chronic conditions.
Theoretical	The article does not have a theoretical framework. A well-defined
x framework	theoretical framework can provide a foundation for the study,
-XXX	guide data collection and analysis, and support the interpretation
Kai	of findings.
Methods and	The research article clearly identifies the philosophical approach
philosophical	as a qualitative descriptive design. The choice of qualitative
underpinning	descriptive design is appropriate for exploring the experiences
s	and perceived impacts of the ACHRU-CPP from the
3	perspectives of older adults with diabetes and other chronic
	conditions. The qualitative approach allows for an in-depth
	exploration of participants' lived experiences and understanding
	of the intervention.
1	ı OLUTE IILEI VETILIƏLI.

Sample	The sampling method used was purposive sampling (maximum variation purposive sampling), which is appropriate for capturing diverse perspectives and experiences. The sample size consisted of 45 community-living older adults aged 65 years or older with diabetes and at least one other chronic condition, which is appropriate for a qualitative study seeking in-depth insights and experiences from participants.
Ethical	The article mentions that institutional ethics approval was
consideration	1
s Data	informed consent to participate in the study. The data collection strategy is described and cirvolves
collection/da	
a analysis	interviews with trained research assistants. The matic analysis,
a analysis	specifically Braun and Clarke's experiential thematic analysis
	framework, was used to generate themes from the interview
	data.
Rigour	The researcher mentions that Lincoln and Guba's validation
	criteria were applied in the study to enhance rigour. Triangulation
	was used through team meetings, and an audit trail was kept to
	ensure dependability and confirmability of findings.
Findings/Dis	The main findings of the study include positive experiences and
cussion	perceived impacts of the program reported by older adults. older
	adults mentioned in-depth dialogue with "professional friends"
	during in-person home and virtual visits, socializing with others
	who have similar health problems during group wellness sessions, receiving person-centered care from a team of
	knowledgeable providers, ongoing contact with providers to
	avoid feeling alone, and the need to address ethnic and cultural
	differences through personal sessions.
	The findings also revealed that older adults experienced
	improved diabetes self-management behaviors, such as
	proactive steps to prevent complications and better control of
	blood pressure. They also reported added connections to health
	and social support services that were helpful in managing their
	conditions effectively.
Conclusions	■ · · · · · · · · · · · · · · · · · · ·
mplication	on supporting diabetes self-management in older adults. The
and recommenda	findings have implications for improving the care of older adults with diabetes and multiple chronic conditions. The article
tions	suggests that integrated care delivery models that leverage
×	community partnerships can better meet the complex health and
	social needs of older adults with diabetes.
Reference	The article has accurately referenced the sources mentioned
'	throughout the paper.

https://doi.org/10.1016/j.diabres.2022.109478

Elements influencing the believability of the research			
Writing style	The article is well-written, using concise language and proper		
	grammar.		
Author	The author, Diriba, is affiliated with The Hong Kong		
	Polytechnic University School of Nursing, which shows she		
	has a background in the field of nursing and knowledge about		
	diabetes management.		
Report title	The title, "Effectiveness of a nurse-led community-based		
	self-management program among adults with diabetes-		
	family dyads in Ethiopia," is clear and gives an overall idea		
	of what the study is about.		
Abstract	There is an abstract provided in the feasibility and pilot study,		
	but the author did not provide an abstract in the clinical trial.		
	The lack of an abstract in a study may limit readers' ability to		
	quickly grasp the research's porpose, methods, findings, and		
	relevance. This forces the reader to read the entire article to		
	fully understand its content		
	ng the robustness of the research		
Literature	The article provides a clear background on the suboptimal		
review	management of diabetes in Africa, highlighting challenges such as Jack of understanding about local foods,		
	such as lack of understanding about local foods, misconceptions, and poor healthcare systems. It emphasizes		
	the importance of diabetes self-management and family		
	support.		
Theoretical	The article identifies the conceptual framework guiding the		
framework	DSMES program, which is the social cognitive theory.		
Aims/	The study aimed to examine the preliminary effects of a		
objectives/	nurse-led community-based DSMES program on diabetes		
research 3	self-management behavior and family support behavior		
questions/	among adults with type 2 diabetes in Ethiopia.		
hypotheses	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Sample	The target population is adults with type 2 diabetes and their		
A A A A A A A A A A A A A A A A A A A	family dyads in Ethiopia, and the sample was selected using		
	convenience sampling (<i>n</i> = 76).		
See The Control of th	The intervention was delivered in the community by nurses.		
Ethical	The author did not mention any ethical considerations which		
considerations	can compromise the validity and credibility of the research.		
1	Ethical considerations are critical when conducting research		
	involving human participants. Researchers are expected to		
	obtain informed consent from participants, protect their		
	autonomy and confidentiality, minimize the risk of harm, and		
	seek ethical approval from relevant research ethics		
	committees or institutional review boards.		
Methodology	The research design used in the study is a pretest-posttest		
	2-arm parallel-group pilot randomized controlled trial.		

	The data collection instruments used to assess self- management behavior and family support behavior were the summary of diabetes self-care activities (SDSCA) and the diabetes family behavior checklist,
Data Analysis	The type of data analysis conducted in this study was primarily descriptive statistics. The sociodemographic characteristics of the participants were analyzed using descriptive statistics to examine the baseline data of the sample. Mean scores were calculated to assess self-management behavior and family support behavior before and after the intervention. Intention-to-treat analysis was applied to handle missing data, and independent samples t-tests were used to compare the outcomes of the intervention and control groups.
Main findings/ results	The self-management practice increased significantly ($p < 0.001$). Also, family support for diabetes management significantly increased after the intervention (t =8.01, p <0.001)
Discussion	The discussion of the study highlights the effectiveness of the nurse-led community-based diabetes self-management education and support program among adults with diabetes-family dyads in Ethiopia. There were significant improvements in both self-management practice and family support among the intervention group compared to the control group.
Reference	
Reference	

Elements influe	ncing the believability of the research
Writing style	The article is well-written, concise, and grammatically correct.
Author	The researcher's qualifications and positions are mentioned, which indicate knowledge in the field of public health nursing and diabetes management.
Report title	The title is clear and effectively conveys the focus of the study, which is to investigate the effect of home care provided by public health nurses on the control of type II diabetes mellitus.
Abstract	The abstract offers a clear overview of the article. It provides information about the research problem, the sample size and methodology used, and the findings.
Elements influe	ncing the robustness of the research
Literature review	There is a literature review in the introduction section of the article.
Theoretical framework	The study does not have a theoretical framework.
Aims/ objectives/ research questions/ hypotheses	The study aims to determine the effect of home care services provided by public health nurses for patients with type II diabetes on HbA to levels and investigate the patients' opinions on blood glucose follow-up, drug use, nutrition, and exercise. The research question and hypotheses are clearly stated. The hypothesis (H1-1) states that the care given by the public health nurse at home affects the decrease in the HbA10 value of the patients.
Sample	patients with type II diabetes who had been treated at the internal medicine clinic of the hospital between 11 th and 30 th April 2016 and met the inclusion criteria. A convenience sampling method was used to select the sample (<i>n</i> = 48). The authors conducted a power analysis to determine the sample size
Ethical considerations	The research followed ethical guidelines by obtaining informed consent from participants, obtaining ethical approval, and potentially ensuring confidentiality and protection from harm.
**Methodology	The study design is clearly identified as a mixed-method approach consisting of both quantitative and qualitative aspects. The quantitative aspect involves a pre and post-test application with a control group, while the qualitative aspect involves a semi-structured interviewing technique. Data was collected through a data collection form for the physical examination, a pre-post measurement form for HbA1c levels, and a qualitative interview form for assessing behaviors on nutrition, exercise, drug use, and monitoring of blood glucose.

	Nonetheless, there is no comprehensive information on the development, reliability, and validity of the data collection instruments.
Data Analysis	Quantitative data were analyzed using several statistical tests, including the chi-square test, dependent samples t-test, Wilcoxon t-test, and Mann–Whitney U test. These tests are appropriate for analyzing the differences between groups and identifying significant changes over time. The significance level was set at p < 0.05, indicating a statistically significant finding.
Main findings/ results	The study found that the HbA1c value of patients with diabetes in the experiment group decreased by 0.75% (95% CI: -1.75% to -0.47%, p=0.002). There was a statistically significant difference between the first and the last measurements (p<0.001). However, there was no statistically significant difference between the first and the last HbA1c values of the control group (p>0.05). The H1-1 hypothesis was supported, as there was a 0.75% decrease in HbA1c value in the experiment group.
Discussion	The discussion highlights that care provided by a nurse at home can effectively decrease patients' HbA1c levels and positively affect diabetes control. The main findings are linked back to the literature review, as the researchers refer to previous studies that have shown similar decreases in HbA1c levels in patients who received nursing care, like the current study. The authors recommend an effective role to be given to nurses and home visits and the inclusion of a
Reference	All the sources cited in the study are accurately referenced,
Reference	

	https://doi.org/10.1093/ageing/afz095
	encing the believability of the research
Writing style	The writing style of the research article is clear, concise, and
	grammatically correct.
Author	The authors' qualifications show knowledge in the field of
	nursing and community-based care for older adults. They are
	affiliated with the School of Nursing at The Hong Kong
D	Polytechnic University.
Report title	The title of the research article is clear, accurate, and
	unambiguous. It effectively conveys the main focus of the
A b a tra a t	study.
Abstract	The abstract provides a clear overview of the study, covering
	essential aspects such as the research problem, sample,
Flomente influ	methodology, findings, and recommendations. encing the robustness of the research
Literature	The literature review is incorporated within the introduction.
review	The literature review is incorporated within the introduction.
Theoretical	The article mentions a theoretical framework based on
framework	Bronfenbrenner's ecological theory, social cognitive theory
	by Bandura, and Gittel's relational coordination theory.
	These theories are wised to design the intervention
	components and guide the implementation of the community-
	based self-care promoting program.
Aims/	The researchers aim to determine whether the intervention
objectives/	program can improve self-efficacy, QoL, daily living activities,
research	and medication adherence while reducing health service
questions/	utilization among community-dwelling older adults.
hypotheses	The target population was older adults aged 60 or ever and
Sample	The target population was older adults aged 60 or over and cognitively competent to perform self-care behaviors. The
	sample ($n = 457$) was selected using a randomized controlled
	trial design conducted in multiple districts in Hong Kong.
Ethical	The study reports obtaining ethical approval from the ethics
	sub-committee of the study university.
Methodology	The research design is clearly identified as a randomized
A diffic	controlled trial conducted over 22 months. The data
~ ***	collection instrument included questionnaires used to
	measure self-efficacy, QoL, IADL, medication adherence,
-**	and health service utilization. The authors noted that the
Kar.	questionnaires used had satisfactory validity and reliability.
12/	The intervention was implemented by a health-social team
	led by a registered nurse.
Data Analysis	The type of data analysis conducted in this research article
	was generalised estimating equations (GEEs). GEEs allow
	for the analysis of between-group effects, within-group (time)
	effects, and interaction (group × time) effects. The authors
	used linear link functions for continuous outcomes (e.g., self-
	efficacy, QoL, ADL, IADL, and medication adherence) and

	Poisson link function for count data (e.g., health service
	utilization outcome).
.	,
Main findings/	The intervention group, which received a three-month
results	program led by a health-social care team, showed
	significantly higher scores in self-efficacy, ADL, IADL, and
	QoL at T2 (immediate post-intervention) compared to T1
	(baseline). The program also significantly improved the
	mental component of QoL, medication adherence and
	reduced the total number of health service attendances
	compared to the control group.
	The study contributes to the evidence base for implementing
	, , , , , , , , , , , , , , , , , , ,
	similar interventions to enhance the well-being and health
	outcomes of older adults in community settings
Discussion	The discussion section of the article does a good job of
	linking the findings back to the existing literature. The authors
	acknowledge the previous research on the concept of aging
	in place and highlight the importance of supporting
	community-dwelling older adults to prevent adverse effects
	that can lead to dependent living they recommend the use
	of e-health applications to replace some of the human
	contact time and testing its cost-effectiveness.
Reference	The references provided in the article are appropriately
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	discussion.
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'	
	referenced, citing refevant literature throughout the discussion.

https://doi.org/10.1111/jgs.15173

Elements influ	encing the believability of the research
Writing style	The writing style in the article is clear, concise, and
	grammatically correct. The information is well-organized, and
	the article follows a standard structure with clear headings.
Author	The authors are listed with their relevant qualifications and
	positions that indicate their expertise in the field. This
	suggests that they possess the knowledge required to
	conduct and present research on the topic
Report title	The title of the article is clear, accurate, and unambiguous.
Abstract	The abstract provides a clear overview of the study, covering
	essential aspects such as the research problem, sample,
	methodology, results, and conclusion.
	encing the robustness of the research
Literature	The authors included comprehensive background literature
review	in the introduction.
Theoretical	There is no theoretical framework used in this article.
framework	<i>YY</i> '
Aims/	The researchers almed to assess the effectiveness of the 6-
objectives/	month community-based intervention with the usual care on
research	self-management, self-efficacy, quality of life, depressive
questions/	symptoms, anxiety, and healthcare costs in older adults with
hypotheses	T2DM and two more comorbidities.
Sample	The target population was community-dwelling older adults
	aged 65 or older with type 2 diabetes mellitus (T2DM) and
	two or more comorbidities.
	The sample consisted of 159 participants who were
.*	randomized into an intervention group (n=80) and a control
│	group (n=79).
2	The sample size was determined through power calculations,
*/ *	considering factors such as effect size, alpha level, and
THE STATE OF THE S	attrition rate.
Ethical	The study was conducted in accordance with the Tri-Council
considerations	Policy Statement, Ethical Conduct for Research Involving
- <u>-</u> - <u>-</u>	Humans, and institutional ethics approval was obtained. The
1/2 × 1	participants were fully informed about the nature of the research, as it is mentioned that written informed consent
· KV	was obtained from participants before study involvement.
	was obtained from participants before study involvement.

Mathadalagy	The research design is a multicenter single blind perallel
Methodology	The research design is a multicenter, single-blind, parallel,
	pragmatic, randomized controlled trial.
	The data gathering instrument used in the study was the 12-
	item Medical Outcomes Study Short-Form Health Survey
	(SF-12), which consisted of two health-related quality of life
	(HRQoL) measures: the Physical Component Summary
	(PCS) and the Mental Component Summary (MCS).
Data Analysis	The researchers used Analysis of Covariance (ANCOVA) to
2 5.15.7 11.15.19 5.15	test the differences in outcome variables between the
	intervention and control groups at six months. ANCOVA is a
	suitable statistical method when you want to compare groups
	while controlling for the effect of a covariate.
	Additionally, the researchers performed multiple imputations
	to handle missing data patterns in the randomized controlled
	trial (RCT). Multiple imputation is a recommended method for
	addressing missing data, and it helps reduce the potential
	bias caused by missing observations
Main findings/	The intervention group showed significant improvement in
results	the SF-12 general health subdomain, MCS, and SDSCA
	(self-management behavior) compared to the control group.
	There was no statistically significant difference in the primary
	outcome measure, POS, between the intervention and
	control groups. The intervention group experienced a greater
	decline in depressive symptoms (CESD-10) compared to the
	control group, although this difference was statistically
Discoursian	significant only in the multiple imputation analysis.
Discussion	The findings of the study suggest that the community-based
	self-care promoting program supported by a health-social
	partnership framework had positive effects on various
	aspects of health-related quality of life and self-management
	behavior for older adults with Type 2 diabetes. The
	intervention showed significant improvements in mental
	health) and self-management behavior and a potential
	positive impact on depressive symptoms.
	The authors discuss the significance of the findings in
√ ※	managing type 2 diabetes in community-dwelling older adults
	and the potential value of a coordinated interdisciplinary and
× 🐼	intersectoral team in managing the condition. They highlight
As All	the need for future research to involve larger pragmatic trials,
CA XES	examine implementation issues, explore service use
	changes within the context of the intervention, and assess
- * ***	intervention sustainability.
Reference	•
Reference	All the journals and books used throughout the article have
*	been accurately referenced in the reference list.

https://doi.org/10.2105/AJPH.2016.303054

Elements influ	encing the believability of the research
Writing style	The article is well-written and concise, and the language
	used is clear and free from jargon.
Author	The authors of the research article appear to be well-qualified
	for the study. Their education qualifications and areas of
	practice indicate expertise in the field of healthcare and
	diabetes management.
Report title	The title of the report is clear, accurate, and unambiguous. It
	effectively conveys the main focus of the study, which is
	comparing the effectiveness of community health workers
	and nurses as counselors or case managers in a self-help
	diabetes management program.
Abstract	The abstract provides a clear overview of the study. It
	includes essential elements, including objectives, methods,
	results, and conclusions.
	encing the robustness of the research
Literature	There is a literature review in the introduction, which provides
review	a relevant context of the study.
Theoretical	The researchers used a theoretical framework to guide their
framework	research. The framework used was Reinforcing and Enabling
	Constructs in Education/Environmental Diagnosis and
	Evaluation (RRECEDE)-
	Policy, Regulatory, and Organizational
	Constructs in Educational and Environmental Development
	(PROCEED) model. This model, as explained by the
	researchers, enables the authors to easily connect the
	predisposing, enabling, and reinforcing factors to
	measurable health outcomes. They also used RE-AIM
_%	(reach, efficacy and effectiveness, adoption,
Aima/	implementation, and maintenance) model.
Aims/	The objective of the study was to confirm the effectiveness of
objectives/	community health workers' involvement as counselors or
research questions/	case managers in a self-help diabetes management program among Korean Americans with uncontrolled type 2 diabetes.
	among Rolean Americans with uncontrolled type 2 diabetes.
Sample	The target population for the study was clearly identified as
Sample	Korean Americans aged 35 to 80 years with type 2 diabetes
KA .	who were able to speak and read Korean. The sample was
·KI	selected using a multi-stage screening process. Initially,
	potential participants underwent random blood glucose tests.
	A sample of 250 were enrolled and randomly assigned to the
	intervention ($n = 120$) or control group ($n = 130$). The sample
	size of 250 participants seems appropriate for a randomized
	controlled trial, especially considering the focus on a specific
	ethnic population.

Ethical considerations	The researchers obtained written consent from the participants, and the research was approved by Johns
CONSIDERATIONS	Hopkins Medical Institutional review board.
Methodology	The research design was identified as an open-label, randomized controlled trial. The data collection instrument was a combination of physiological and psychobehavioral health outcome measures, which were collected at baseline and at various time points (3, 6, 9, and 12 months). The intervention included didactic education or training for 12 hours, followed by monthly telephone counseling by a team of registered nurses and community health workers.
Data Analysis	Physiological and psychobehavioral health outcomes were measured at baseline and multiple time points during the study. The research team used statistical analyses to compare these outcomes among different groups (community health worker-counseled, RN-counseled, and control groups). Data were analyzed using regression analyses (linear and logistic) to assess changes in hemoglobin A1C, blood glucose levels, self-efficacy for diabetes, and quality of life scores over time.
Main findings/ results	The intervention group especially those counseled by community health workers, showed significant reductions in hemoglobin A1C levels compared to the control group. Both community health worker-counseled, and RN-counseled groups experienced improvements in self-efficacy for diabetes over time, while the control group's improvements were not statistically significant. The community health worker counseled group demonstrated greater improvement in quality of life scores compared to the RN-counseled and control groups.
Discussion	participatory research is effective for managing and controlling chronic conditions like type 2 diabetes, particularly in ethnic/linguistic minority communities. They highlight the crucial role of community health workers as the primary contact with study participants, motivators, coaches, and trusted friends of the patients. The study highlights the feasibility and value of using community health workers as counselors or case managers, especially in communities with limited access to bilingual healthcare providers.
Reference	There was accurate and appropriate referencing which enhanced the credibility and validity of the research study.

https://doi.org/10.1016/j.amepre.2015.04.033

Elements influ	encing the believability of the research
Writing style	The writing style of the article is clear, concise, and well-
	organized. The sentences are coherent, and the information
	is presented in a logical manner.
Author	The researchers are affiliates with reputable institutions, and
	their qualifications and positions indicate a high degree of
	knowledge and expertise in the field of nursing, public health,
	and medicine, making them well-suited to conduct and
	contribute to the study.
Report title	The title is clear, and it provides a concise overview of the
	focus of the study.
Abstract	The provided abstract offers a clear overview of the study. It
	gives a brief introduction, design, setting, sample,
	intervention, main outcome measures, results, and
	conclusions.
	encing the robustness of the research
Literature	The article has included previous research studies to support
review Theoretical	the rationale for the study.
framework	The study identifies a theoretical framework based on the
Iramework	Predisposing, Reinforcing, and Enabling Constructs in Education/Environmental Diagnosis and Evaluation
	(PRECEDE PROCEED) model, incorporating elements from
	the self-help model.
Aims/	The article purposed to evaluate the effectiveness of a
objectives/	community-based, culturally tailored, multimodal behavioral
research	Intervention program in an ethnic/linguistic minority group
questions/	with type 2 diabetes.
hypotheses	Ha.
Sample	The target population was first-generation Korean American
	immigrants with diabetes. The eligibility criteria are broad to
X^	improve external validity. As per the researchers' reports that
~ [105 participants remained in the intervention group and 104
A Till	in the control group, yielding a retention rate of 83.6%.
	The intervention was delivered by a team of bilingual
(A)	nurses/community health workers.
Ethical	The article notes that all the intervention protocols were
considerations Methodology	approved by the Johns Hopkins Medicine IRB. The study used a community-based, open-label,
Wethodology	The study used a community-based, open-label, randomized controlled trial (RCT) with a waitlist control
	group.
	Some of the data collection tools used in the study were: Spot
	check and for A1c Now+ test kit for glucose level
	assessment, demographic questionnaire, diabetes
	Knowledge Test (DKT) to assess participants' diabetes
	knowledge, Stanford Chronic Disease Self-Efficacy scale to
	Magg, standard sincing blocked con Lineary oddie to

	measure self-efficacy in diabetes management, patient Health Questionnaire 9 (PHQ-9K) to measure depression, and diabetes Quality of Life Measure (DQOL) to assess the impact of diabetes on the quality of life. The instruments used in the study were appropriate for assessing the different aspects of diabetes management, self-efficacy, knowledge, quality of life,
Data Analysis	The study employed parametric tests (e.g., t-tests, chi- square tests) to compare group differences at baseline and used the mixed model of panel data to analyze changes in primary outcomes over time. The statistical analysis was appropriate for the study design and research questions.
Main findings/ results	Community-based participatory research was effective in managing and controlling chronic conditions, specifically type 2 diabetes, in an ethnic/linguistic minority community. The intervention group showed statistically significant reductions in the A1c level, a critical clinical parameter of diabetic control, compared to the control group. The intervention group showed statistically significant improvements in DM-related self-efficacy, DM knowledge, quality of life, and attitudes toward DM compared to the control group.
Discussion	The discussion section highlights that the SHIP-DM intervention is effective in improving diabetes control among linguistically isolated ethnic minority immigrants. The researchers compared the magnitude of A1c reduction in the intervention group to other clinical trials, emphasizing that the reductions were substantial and clinically significant. They also discuss how the intervention led to improvements in cardiovascular health indicators, such as blood glucose, total cholesterol, and LDL levels, which can reduce DM-related morbidity and mortality.
Reference	There is proper citation for all sources used throughout the study. This adds to the credibility and validity of the research findings.
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https://doi.org/10.1016/j.cct.2013.07.010

Elements influ	encing the believability of the research
Writing style	The article is well-written, with a concise and clear writing
	style.
Author	The research was conducted by a team of professionals
	affiliated with reputable institutions, and they have expertise
	in health services research, endocrinology, general internal
	medicine, biostatistics, nursing, and related fields.
Report title	The article title is clear and precise, highlighting the main focus of the study.
Abstract	The abstract offers a clear and comprehensive overview of
	the study.
Elements influ	encing the robustness of the research
Literature	The introduction section discusses relevant evidence
review	supporting glycemic control and blood pressure control and
	cites various studies demonstrating the benefits of these
	interventions.
Theoretical	There is no specific theoretical framework, but the authors
framework	indicate that the
	intervention is based on guidelines from the American
	Diabetes Association (ADA) and the Seventh Joint National
	Committee (NC-VII), which could be considered the basis
	for the theoretical framework.
Aims/	The primary objective is to evaluate the effectiveness of a
objectives/	telephone-delivered, nurse-administered behavioral
research	intervention among community patients with poorly-
questions/	controlled diabetes and comorbid hypertension.
hypotheses	The Assess to consider the matter than the mat
Sample	The target population is patients with poorly-controlled type
<u> </u>	2 diabetes and comorbid hypertension. The sample was selected from nine community practices in the Duke Primary
√ ₩	Care Research Consortium (<i>n</i> = 377). Randomly allocated to
	the intervention group ($n = 193$) and control group ($n = 184$).
Ethiga	the intervention group $(n-100)$ and control group $(n-104)$.
considerations	
Methodology	The research design was a randomized controlled trial (RCT)
-XX	with a 2-arm design.
4-10	The intervention was delivered through telephone calls, and
1	the nurse interventionist used a computer database with
•	scripts and tailoring algorithms to ensure the standardization
	of tailored information.
	Staff responsible for data collection remained blinded to
	patient randomization assignments which helped to reduce
	bias and ensure the integrity of the study.
	The baseline study survey collected demographic, clinical,
	socioeconomic, and psychosocial data. Primary outcomes

	(HbA1c and BP) were measured at baseline, 6, 12, and 24
	months, and they also assessed secondary outcomes (self-
	efficacy, self-reported medication adherence, and exercise)
Data Analysis	
Data Analysis	The primary outcomes, HbA1c, and blood pressure (BP)
	control, were analyzed using generalized estimating
	equation (GEE) methods. The secondary outcomes, which
	were continuous and longitudinal, were analyzed using linear
	mixed-effects models. The statistical analyses used in this
	study appear to be appropriate, given the nature of the data
Main findings/	The main findings of the study indicated that the intervention
results	group, which received the tailored nurse-delivered behavioral
i sounts	intervention for diabetes and hypertension management,
	showed statistically significant reductions in Maric levels
	compared to the control group. Both groups had elevated
	baseline levels of HbA1c, indicating poorly controlled
	diabetes, but the intervention group experienced a significant
	improvement in glycemic control.
Discussion	Nurse-delivered, tailored behavioral interventions are
	effective in improving glycemic control for patients with
	poorly-controlled type 2 diabetes and hypertension. Thus,
	there is a potential benefit of using tailored interventions
	delivered via telephone, especially for patients with limited
	access to healthcare facilities. Telephone-delivered
	interventions can improve patient adherence to treatment
	plans and offer a cost-effective means of providing
	healthcare support to a broader population.
Reference	There is proper and accurate referencing throughout the
Reference	article is proper and accurate referencing unoughout the
	article.
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https://doi.org/10.1111/j.1751-7176.2011.00479.x

Elements influence	cing the believability of the research
Writing style	The article is well-written, concise, and grammatically
	correct.
Author	The researchers are affiliated with reputable institutions, and
	their qualifications show a great degree of knowledge and
	expertise in the field of nursing and public health, adding
_	credibility to the study.
Report title	The title of the article is clear and accurate.
Abstract	The abstract provides the purpose of the paper, sample,
	methodology, findings, and a conclusion
	cing the robustness of the research
Literature	The authors did not include a comprehensive literature
review	review, but still, they provided some prior research evidence
	to support their research.
Theoretical	There is no theoretical framework provided.
framework	
Aims/	The study aims to determine the sustainability of intervention
objectives/	effects in lowering pood pressure obtained through a short-
research	term education program using home telemonitoring of blood
questions/	pressure and regular counseling by bilingual nurses.
hypotheses	
Sample	The target population for the study is middle-aged (40-64
	years Korean immigrants with hypertension. The sample
	size was 359 participants, who were recruited through ethnic
	churches, grocery stores, and ethnic newspaper
	advertisements. The participants were randomly assigned to
	either the more-intensive counseling (biweekly counseling)
	or less-intensive counseling (monthly counseling) groups.
Ethical	The participants provided written informed consent, and the
considerations	study was approved by the institutional review board.
Methodology	The research design used in the study is a community-based
A A A A	clinical trial.
14 17	BP control was defined as home-measured BP below 135/85
× 1000	mmHg and 140/85 mmHg for diabetic patients.
<u> </u>	For data collection, participants measured their BP using the
*	A&D UA-767 device. They used 12 items designed by the
1/4/	National Heart Lung Blood Institute and 14 items based on
	literature to assess HBP knowledge. Questionnaires, Likert- type items, and Kim Depression Scale for Korean Americans
	were also used to collect information.
Data Analysis	The data analysis involved the use of mixed-effects models
Data Allalysis	to examine the rate of change over time in blood pressure
	(mean SBP and mean DBP) and psychosocial outcomes
	(HBP knowledge, HBP beliefs, HBP self-efficacy, depression
	(Fibrikilowieuge, Fibribeliels, Fibriseli-eliloacy, depression

Main findings/ results	measured using KDSKA, and medication adherence measured using the Hill-Bone Compliance Scale). The study demonstrated that individualized counseling by bilingual nurses based on teletransmitted monitoring of home blood pressure (BP) was effective in sustaining BP control achieved through a series of group HBP education programs during 12 months in hypertensive Korean Americans. Participants in the more-counseled group showed greater improvements in BP and psychosocial outcomes (such as decreased depressive symptoms) compared to participants in the less-counseled group. Both groups showed improvements in adherence to HBP treatment recommendations, including medication-taking a low-salt diet, and keeping appointments with the doctor. The results are consistent with previous research, indicating
	that individualized counseling, along with home BP
Reference	control. The sources are accurately referenced.
发现	monitoring, can lead to sustained improvements in BP control. The sources are accurately referenced.

Elements influe	encing the believability of the research
Writing style	The article is well-written, concise, and grammatically correct.
Author	All authors hold a Ph.D., indicating expertise in their respective areas, making them qualified to conduct research in the field of nursing and health science.
Report title	The title is clear and communicates the focus of the study
Abstract	The abstract provides a clear overview of the study, summarizing the aim, participants, methodology, findings, and conclusion.
Elements influe	encing the robustness of the research
Literature review	The literature review section provides relevant background information and context for the study. It highlights the prevalence and impact of diabetes, emphasizing the need for self-management in diabetes care. The review suggests that psychosocial problems are common among individuals with diabetes, and addressing self-efficacy can improve diabetes self-management
Theoretical framework	The study uses Bandura's social cognitive theory, particularly the concept of self-efficacy, as the theoretical framework for the intervention program. The theory is described as a cognitive resource that enables individuals to adapt and cope with chronic illness.
Aims/ objectives/ research questions/	The aim of the study is to evaluate the effectiveness of a self-efficacy enhancing intervention program for individuals with type 2 diabetes.
hypotheses Sample Ethical	The sample was individuals with type 2 diabetes in Taiwan who were selected using a randomized controlled trial design. Statistical power calculation was conducted to determine the sample size (<i>n</i> = 145). This indicates that the study underwent a formal ethical review process as it was approved by the human research.
Methodology	review process as it was approved by the human research ethics committee of National Taipei College, Taiwan. The research design is randomized controlled trial. For data collection, the instruments used were the Chinese version of the Diabetes Management Self-Efficacy Scale (C-DMSES), the Chinese version of the Perceived Therapeutic Efficacy Scale (C-PTES), and the Chinese version of the Summary of Diabetes Self-Care Activities (SDSCA) scale. The instruments were designed to measure self-efficacy, outcome expectations, and self-care behavior related to diabetes management.
Data Analysis	The data analysis in the study was conducted using SPSS statistical software. The analysis methods included

	descriptive statistics. T-test, chi-squared, and ANOVA.
Main findings	The intervention group in the study showed significant
results	improvements in efficacy expectations, outcome
	expectations, and self-care behaviors compared to the
	control group. The intervention had a moderate effect on
	enhancing participants' confidence in managing type 2
	diabetes and encouraging them to engage in diabetes self-
	care activities more frequently.
Discussion	The study demonstrates the effectiveness of the SEEIP
2.000.00.01	enhancing self-efficacy and self-care behavior in managing
	type 2 diabetes. It recommends incorporating self-efficacy-
	enhancing programs into clinical care for individuals with
	diabetes and suggests developing training programs for
	educators and healthcare professionals to improve their self-
	efficacy skills. The results align with existing research that
	shows the positive impact of diabetes education programs
	and self-management interventions on self-efficacy and
	diabetes management.
Reference	The references provided in the study are accurately
rtororios	referenced and relevant.
A HARRING THE STATE OF THE STAT	referenced and relevant.