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The Impact of the Alphabet Strategy for Diabetes Mellitus: A Literature Review

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Abstract

Background: The number of people with diabetes continues to increase, and the inability to control blood glucose increases the risk of complications, morbidity, and mortality. Diabetes mellitus requires lifelong self-care management to keep blood glucose levels within normal limits and reduce the risk of complications. One effective self-care management strategy is the alphabet strategy, which is proven to improve glycemic control.

Objective: This study aims to evaluate the effectiveness of the alphabet strategy in improving outcomes for individuals with diabetes.

Methods: This systematic literature review was conducted in accordance with PRISMA guidelines. We searched four major databases ScienceDirect, PubMed, Springer, and Wiley using keywords defined by the PICO framework.

Results: The findings indicated a significant reduction in HbA1c levels, a decrease in systolic blood pressure, and improved medication adherence as a result of the alphabet strategy implementation.

Conclusion: The alphabet strategy is an effective, adaptable, and cost-efficient intervention for diabetes management, offering significant improvements in clinical outcomes and feasibility across various healthcare settings.

Keywords: The Alphabet Strategy, Diabetes Mellitus

INTRODUCTION

Diabetes mellitus (DM) is one of the most significant global health challenges, with major impacts on individuals and health systems worldwide. The prevalence of diabetes continues to rise dramatically, with data from the International Diabetes Federation (IDF) reporting that in 2021 there were approximately 537 million adults living with diabetes, and this figure is expected to jump to 783 million by 2045 (1). Type 2 diabetes, which accounts for approximately 90-95% of all diabetes cases, is closely associated with cardiovascular complications, neuropathy, nephropathy and retinopathy, all of which can lead to long-term disability and premature death. A major challenge in diabetes management is optimizing glycemic control to minimize the risk of these complications (2, 3).

Effective diabetes management depends not only on medical interventions, but also on active patient participation in self-care. Patient education and empowerment play an important role in ensuring adherence to medication and necessary lifestyle changes. However, studies show that many patients still experience difficulties in adhering to long-term diabetes management recommendations, caused by various factors, including a lack of understanding of their disease and limitations in remembering or executing care plans (4, 5).



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The alphabet strategy, as an innovative evidence-based approach, aims to address this challenge by providing a structured and memorable educational framework. The strategy is designed to simplify diabetes management through a mnemonic approach, where each letter of the alphabet represents an important component of diabetes care. For example, "A" for Advice on lifestyle changes, "B" for Blood pressure monitoring, "C" for Cholesterol checks, and "G" for Guardian drugs. In this way, the alphabet strategy facilitates better understanding and increases patient involvement in their disease management (6).

Research shows that the alphabet strategy is effective in improving clinical outcomes. The study by Robinson et al. (2019) reported that the implementation of this strategy resulted in a significant reduction in HbA1c levels, from 10.5% to 7.1% within 12 weeks, indicating substantial improvements in glycemic control (7). In addition, a study by Upreti et al. (2021) found that this strategy not only improved patient satisfaction, but was also appreciated by healthcare workers, with 91% of them reporting that the alphabet strategy facilitated more efficient and effective care (8).

In nursing practice, nurses have a central role in implementing the alphabet strategy, given the importance of patient education and continuous monitoring in diabetes management. Nurses are responsible for ensuring that patients understand each component of the strategy and are able to apply it in their daily lives. This structured and adaptive approach also allows nurses to tailor interventions to patients' cultural and socio-economic needs, strengthening their involvement in their care (9).

OBJECTIVE

The aim of this study was to identified the impact of the alphabet strategy on people with diabetes.

METODE

This study was a systematic literature review that followed the PRISMA (2020) guidelines and used the PICO framework to determine selection criteria. Keywords considered included "type 2 diabetes" and "the alphabet strategy." The inclusion criteria used were: (1) quantitative studies with a randomized controlled trial (RCT) design; (2) articles published in English between 2014 and 2024; and (3) original articles available in full text and open access journals. Articles not meeting these criteria were excluded from the analysis to maintain consistency and focus.

Criteria	Determinant		
Population/People	Type 2 diabetes mellitus		
Intervenion	The alphabet strategy		
Comparator	None		
Outcome	Glycaemic control, blood glucose control, blood pressure, cholesterol,		
	creatinine, fasting blood glucose, eye examination, foot examination, medicine		
	adherence		
Study type	Randomized controlled trial, experimental trial, prospective study, mix-		
	methods study		

Tabel 1. Criteria PICOS

The search across four databases resulted in 922 articles from ScienceDirect, 3 from PubMed, 20 from Springer, and 221 from Wiley. Screening these articles based on relevance and inclusion criteria reduced



the number to 678. We then reviewed abstracts and titles, excluding 669 articles due to being systematic reviews (226), qualitative studies (12), unsuitable research samples (131), or not focusing on the alphabet strategy (300). Finally, 9 full-text articles were evaluated in depth, with 5 articles excluded due to irrelevant variables, leaving 4 articles analyzed.





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RESULT

Table 1. Article Extraction Results

No	Title, Author,	Method	Intervention	Outcome
	Year			
1	Impact of the	- Intensive inter-	1. The clinic assesses the	1. The alphabet strat-
	Alphabet Strategy	vention	availability of re-	egy can be imple-
	on Improving	- Aim to increase	sources for imple-	mented in 91% of
	Diabetes Care at a	the number of un-	menting the alphabet	patients with diabe-
	Free Health Clinic.	insured patients	strategy, including	tes who are seen by
	Robinson, Jamie.	who receive dia-	items such as BMI	healthcare profes-
	Lang, Betty.	betes care and	wheels, foot examina-	sionals
	Clippinger, Davi	treatment	tion form, monofila-	2. A total of 59% of
	(Robinson, et al.,	- The population	ments, ADA booklets,	patients who at-
	2019)	under study com-	eye examination for-	tended educational
	2019	prised individuals	mat, educational ma-	classes demon-
		with diabetes who	terial, and HbA1c kits.	strated an increase
		had visited free	Subsequently, all per-	in their knowledge
		healthcare clinics	sonnel must undergo	scores
		- The respondent	training on the alpha-	3. It is recommended
		were patients who	bet strategy checklist,	that 100% of pa-
		had visited the	which will be con-	tients with hyper-
		free service clinic	ducted by the nurse	tension be captured.
		within 12-weeks	clinician until the con-	The respondents are
		research period	clusion of the research	required to attend
		- To be eligible for	2. The nurse will con-	the research facility
		inclusion in the	duct an assessment of	on at least two occa-
		study, respondent	the respondents in ac-	sions within 12-
		were required to	cordance with an al-	weeks period
		be able to speak in	phabetical checklist	4. There was a statisti-
		English or Span-	3. Subsequently, the cli-	cally significant re-
		ish, be aged over	nician provides each	duction in systolic
		18, and suffer	respondent with an	blood pressure
		from diabetes	educational interven-	(from 135 mmHg to
		- Total of respond-	tion based on the ini-	125 mmHg), instan-
		ents are 34	tial results of the al-	taneous blood glu-
			phabet checklist	cose (from 185
			4. It is at the discretion	mg/dl to 164 mg/dl)
			of the respondents	and body weight
			whether or not they	(from 223 lbs to 218
			wish to participate in	lbs)
			diabetes self-care edu-	5. A reduction in
			cation classes. The	HbA1c was ob-
			fundamental aspects	served, as



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2	Alphabet strategy for diabetes care: A checklist approach in the time of COVID-19 and beyond. Upreti, Rajeev. Lee, James D. Kotecha, Satyan. Patel, Vinod (Upreti, et al., 2021) 2021	- Intensive multi- factorial interven- tion therapy care plan. The sample com- prised outpatients from UK regional hospital, with 1,071 respondents having followed them for a period of seven years.	of diabetes self-care education are rooted in the principles of nu- trition of self-care strategies, which are organised in an alpha- betical sequence 5. A pre- and post- knowledge assess- ment will be con- ducted for respond- ents who participated in diabetes seld-care education classes 6. A chart is conducted on a regular basis, typ- ically every one to two weeks 1. It is recommended that an alphabet strat- egy be developed for educational materials in the form of slides, documents, and vid- eos. The educational pack- ages, which consist of pa- tient education posters and patient care plans, a diabetes guide sheet and supporting guides con- taining suggestions for blood sugar control, opti- mising drug use, diabetes prevention and achieving fiabtes care through the health team, are distrib-	evidenced by a sta- tistically significant result (t(2)=4,556) in accordance with the paired t-test. The results were statistically signifi- cant (p<0,05) with a mean pre-post value of 10,5 and a mean post-test value of 7,1 (standard devia- tion pre 2,356 to post 1,053) 1. Significant im- provements (p<0,05) were ob- served in lipid val- ues, blood pressure, HbA1c, and in the results of eye and foot examination A notable increase in satisfaction was ob- served among both dia- betes patients and pro- fessional health work- ers. Specifically, 91% of respondents reported a positive influence on their diabetes care.
			habtes care through the health team, are distrib-	
3	ABC's of diabetes	- A mixmethode pre	There are three session:	There was a statisti-
5	education: An	– posttest on dia-	1. Diabetes education in	cally significant in-
	interprofessional	betes disease. It	the form of interpro-	crease in knowledge
	education model	contained quanti-	fessional simulation	about diabetes-specific
		tative data in the	activities. Apre-test	education (p=0,0001)



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	Wildermuth, Anne.	alphabet model	will be conducted to	and public health
	Cook, Kristen.	mix with the qual-	assess the participants	knowledge (p=0,0017)
	Timmerman,	itative data from	knowledge about al-	
	Megan.	students perspec-	phabet strategies and	
	Wheelhouse, Carey	tive and from the	diabetes epidemiol-	
	(Wildermuth, et al.,	standardized pa-	ogy. The respondens	
	2022)	tients utilized	are divided into six	
		- The sample com-	small groups; each of	
		prised students	which will introduce	
		pursuing a degree	themselves and en-	
		in health-related	gage in a discussion	
		disciplines, in-	about letters in the al-	
		cluding medicine,	phabet strategy,	
		nutrition, and	guided by one mentor	
		pharmacy. Poten-	2. The content of this	
		tial respondents	session is identical to	
		are informed	that of session 1, with	
		about the research	the exception of the	
		project and may	addition of teaching	
		participate in the	on health literacy and	
		study if they ar-	the alphabet strategy.	
		rive before the	This session will focus on	
		quota is met.	teaching the participants	
		A total of 39 students	about the importance of	
		participated in the	selecting an effective	
		study, comprising 12	checklist system for the	
		individuals pursuing	diabetes management.	
		a Master of Physician	Following this, the par-	
		Assistant studies, 11	ticipants will regroup and	
		Doctor of Pharmacy	engage in discussion.	
		students, and 6 Mas-	Subsequent to the afore-	
		ter of Medical Nutri-	mentioned educational	
		tion students.	programme, a posttest	
			will be conducted.	
4	Ouality of diabetes	- A preliminary	1. Data from 4,537 pa-	1. There is a positive
	≈ care worldwide	prospective study	tients in 32 countries	correlation between
	and feasibility of	of the alphabet	were converted into	GDP and THE and
	implementation of	strategy in	quality and outcome	OOF
	the Alphabet	low0resources ar-	framework (QOF)	2. 91% of health work-
	strategy: GAIA	eas of India.	scores.	ers indicated that
	project (Global	- Subsequently, a	2. A comparison is made	the alphabet strat-
	Alphabet Strategy	four-months pro-	between the OOF	egy was a practical
	. 02	spective audit was	score and two other	approach to



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Implementation	conducted to eval-	economic indicators:	implement. Patients
Audit)	uate the impact of	gross domestic prod-	have indicated that
Lee, James D.	the aforemen-	uct (GDP) and the	the alphabet strat-
Saravanan,	tioned changes on	percentage of total	egy checklist is an
Ponnusamy.	the quality of care	health expenditure	efficacious educa-
Varadhan,	A retrospective audit	(THE)	tional instrument.
Lakshminarayanan.	was conducted over a	A structured qualitative	Significant improve-
Morrisey, John R.	nine-month period,	questionnaire was em-	ments were observed in
Patel, Vinod (Lee,	during which data	ployed to ascertain the	multiple domains of the
et al., 2014)	were obtanined from	opinions of health work-	alphabet strategy, in-
2014	4,537 patients in 32	ers regarding the imple-	cluding blood glucose
	countries.	mentation of the alphabet	level, total cholesterol,
		strategy in health ser-	serum lipid profile, re-
		vices.	nal function, pro-
			teinuria, and insulin
			maintenance drug com-
			pliance. This was fol-
			lowed by a notable in-
			crease in the quality
			and outcomes frame-
			work (QOF) score,
			from 45% to 61% (p <
			0,001).

DISCUSSION

The study describes the strength and weakness of the alphabet strategy based on the result from each research. From the table 2 can show that alphabet strategy has many strengths, which are improve the glicaemic control and clinical components of the alphabet strategy, easy to adapt in many aspect of the diabeters life, cost effective, practical to memories and straightforward to understand for both of patients yet health workers.

1. Glicaemic control

Glycaemic control has been shown to significantly improve following the implementation of the alphabet strategy The implementation of the alphabet strategy effectively reduced HbA1c levels, as evidenced in various reviewed studies (5, 6). This improvement results from a comprehensive and structured approach to diabetes management. The alphabet strategy integrates important elements in diabetes care, such as regular monitoring and personalized education, which allows patients to better understand and manage their blood glucose levels.

One of the key factors contributing to the reduction in HbA1c is the emphasis on consistent patient education. By organizing diabetes management tasks in an easy-to-remember alphabetical order, healthcare providers can ensure that patients understand the importance of each component, such as monitoring blood pressure and cholesterol levels, medication adherence, and scheduling regular foot and eye exams. These tasks collectively improve patient adherence to self-care routines, which ultimately helps keep blood glucose levels stable (10).



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The observed reduction in HbA1c levels was attributed to the strategy's emphasis on regular assessments and timely interventions, ensuring optimal glycemic outcomes. A statistically significant reduction in HbA1c was observed, from 10.5% to 7.1% within 12 weeks after implementation of the alphabet strategy. These results confirm the effectiveness of a systematic and frequent assessment approach, where treatment plans can be adjusted based on real-time data to ensure optimal glycemic outcomes. The alphabet strategy also encourages a proactive approach, where education and preventive measures are integrated into daily life. With more accessible and culturally customizable diabetes care, patients become more involved in the management of their health. This active involvement not only improves adherence to lifestyle modifications, but also empowers patients to make informed decisions, ultimately lowering HbA1c levels and reducing the risk of complications. Therefore, structured and multifaceted interventions from the alphabet strategy are essential to achieve long-term glycemic control (7).

2. Clinical components of the alphabet strategy

Several clinical components measured in the alphabet strategy experienced significant improvement The efficacy of the alphabet strategy in normalizing various clinical parameters has been widely demonstrated in the reviewed studies, which show the impact of this method through a structured and multifaceted approach. The strategy comprehensively addresses important health parameters in diabetes management, such as glycemic control, blood pressure, cholesterol, renal function, and preventive screening. Not just a mnemonic tool, the alphabet strategy is also a well-organized and patient-centered intervention, ensuring consistent monitoring and management of key diabetes indicators.

The main success of this strategy lies in its emphasis on continuous individual assessment and comprehensive education. For example, regular monitoring of blood pressure and cholesterol as part of this strategy allows for early detection and timely intervention, thereby reducing the risk of cardiovascular complications (7). In addition, comprehensive eye and foot examinations help prevent and manage microvascular complications that often occur in people with diabetes. By integrating these important components into routine care, the alphabet strategy enables healthcare professionals to promptly address abnormal parameters, ultimately improving patient outcomes.

The uniqueness of the alphabet strategy lies in its focus on empowering patients and healthcare workers through clear and applicable guidance. The strategy makes it easier for patients to adhere to treatment regimens, with customized educational materials delivered in an easy-to-understand format, as evidenced by significant improvements in patient adherence and knowledge (8). Furthermore, the strategy promotes a holistic approach that integrates lifestyle modifications along with clinical interventions, which contributes to sustained reductions in HbA1c and other metabolic markers. In other words, the strength of the alphabet strategy lies in its systematic yet flexible framework, which allows for customization in its implementation while ensuring that all important aspects of diabetes management are covered. This flexibility, coupled with an evidence-based focus on measurable outcomes, has proven effective in converting abnormal clinical values to normal, ultimately improving the overall quality of diabetes care.

3. Easy to adapt

Studies have shown that the Alphabet Strategy is easily adaptable to a variety of patient conditions (6). Its ability to adapt to diverse patient demographics is crucial in ensuring effective diabetes management in various environments. From an age perspective, for example, older adults often face challenges related to memory and physical health, which can complicate diabetes self-management. However, the mnemonic design of the Alphabet Strategy simplifies the recall process, making it more accessible to elderly patients. Meanwhile, younger patients, who are generally more familiar with technology, can easily integrate this



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approach into their routine through digital reminders and health apps. The universal design of this strategy ensures that all age groups can apply its principles effectively (7).

In addition, the Alphabet Strategy proved to be culturally flexible, with the ability to respect and integrate cultural beliefs related to health. For example, in communities where eating habits are influenced by cultural norms, the strategy can be adapted to provide advice on healthy food choices that remain relevant, while still emphasizing the importance of consistent blood glucose monitoring. This cultural sensitivity increases patient adherence to the strategy and encourages their active engagement (4, 6).

Belief systems also play an important role in health behaviors, and the Alphabet Strategy's patient-centered approach allows for modifications based on individual beliefs. For example, in communities where religious practices influence healthcare decisions, the strategy can be customized to accommodate faith-based dietary restrictions or spiritual healing practices. The educational component of the strategy is delivered with respect for such beliefs, encouraging patients to take an active role in managing their diabetes (10).

In addition, the Alphabet Strategy considers seasonal variations that can affect diabetes management, particularly in regions with extreme weather conditions that limit physical activity or affect food availability. The strategy provides customizable advice, such as encouraging patients to find alternatives to indoor exercise during winter or planning meals that remain balanced despite seasonal limitations. This flexibility ensures that diabetes management can remain sustainable and effective throughout the year, confirming the practicality of this strategy in a variety of environmental contexts (6). Overall, the design of the Alphabet Strategy allows for optimal adaptation to age differences, cultural contexts, belief systems, and seasonal changes. Such flexibility attests to the strategy's effectiveness in promoting sustainable diabetes self-care across a wide range of patient conditions and environments.

4. Cost effective

Cost-efficiency is one of the key benefits of implementing the alphabet strategy, especially for economically challenged individuals who require lifelong diabetes management (6). Managing diabetes requires ongoing financial support, and the alphabet strategy effectively optimizes care without the need for expensive technology. The strategy can be implemented using simple, low-cost materials, such as educational posters, BMI wheels, foot examination forms, and HbA1c testing kits, which can be easily accessed by healthcare providers. When combined with targeted education, these resources empower patients to manage diabetes independently and efficiently (7).

The ability of the alphabet strategy to adapt to different socioeconomic conditions. Instead of relying on expensive diagnostic equipment, the strategy emphasizes simple yet essential health checks, such as blood pressure monitoring and cholesterol testing. By utilizing existing resources and educating patients on medication adherence, the strategy ensures sustainable health outcomes while reducing the cost of care. For example, the reductions in HbA1c and systolic blood pressure achieved with these interventions indicate the potential for significant long-term cost savings, due to reduced risk of complications and hospital visits (8).

Research by Lee et al. (2014) highlights another aspect of cost efficiency: scale of implementation. The alphabet strategy can be easily integrated into existing healthcare systems, even in resource-constrained environments, with minimal expenditure. Its standardized and repeatable process makes it easy to train health workers, so it can be applied consistently. The simplicity of the strategy also contributes to low training costs, as demonstrated in a region that used the alphabet strategy and saw significant health improvements without additional financial burden (11).



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In conclusion, the cost-effectiveness of the alphabet strategy lies in the use of easily accessible resources, comprehensive patient education, and a focus on preventive care. By prioritizing inexpensive yet effective monitoring and management techniques, healthcare systems can maintain glycemic control, blood pressure stabilization, and improved medication adherence without high costs. This strategy is an ideal solution for resource-constrained environments, as it ensures equal access to diabetes management while maintaining optimal health outcomes.

5. Practical to memories and straightforward to understand for both patients and health workers The alphabet strategy is a mnemonic tool that aligns with the key targets of diabetes mellitus management. This approach emphasizes the importance of patient focus, with each letter representing an important health parameter for diabetes management. For example, "A" symbolizes 'Advice' on lifestyle changes, while "B" refers to 'Blood pressure monitoring', creating a structured pathway for consistent patient assessment. Research by Robinson et al. (2019) showed that implementation of this strategy increased patient knowledge scores by 59%, confirming its educative value (7). In addition, Upreti et al. (2021) reported that healthcare workers appreciated its easy-to-use format, which facilitates efficient communication and encourages collaboration between multidisciplinary teams (8).

More than just mnemonics, the alphabet strategy also integrates culturally adaptable elements. Dr. Lee highlights the flexibility of this strategy, which can be adapted based on the patient's socioeconomic and cultural background, making it an inclusive and versatile tool. Such flexibility ensures that patients from various populations can be actively engaged and benefit from the intervention, contributing to improved health outcomes in various care settings. The combination of mnemonic components and practical application makes the alphabet strategy a robust framework to support patient and health worker engagement. GAIA project findings revealed that 91% of health workers found the strategy to be efficient and impactful, resulting in significant improvements in clinical measurements such as HbA1c, blood pressure and lipid profiles. Thus, the alphabet strategy is not only easy to remember but also empowers healthcare teams to deliver consistent, high-quality diabetes care (6).

CONCLUSION

The alphabet strategy is an effective, adaptable, and cost-efficient intervention for managing diabetes mellitus. It significantly improves glycaemic control, blood pressure, and medication adherence while being culturally sensitive and easy to implement. The findings support the integration of this evidence-based approach into diabetes care practices, emphasizing its practicality and wide applicability.

CONFLICT OF INTEREST

The authors declare no potential conflicts of interest in relation to the research, authorship and/or publication of this article.

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