VIDEO EDUCATION FOR PARENT AMONG **ASTHMATIC CHILDREN**

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Abstract

Background: Asthma is one of the most serious public health problems affecting people of all ages throughout the world. The incidence of asthma continues to increase worldwide and consequently; asthma places a huge economic burden on healthcare resources. It is about bouts in terms of breathing from coughing and chest whistling due to bronchoconstriction. And bronchi occur by three factors, namely: Spasm of his trachea. Swelling of the mucous membrane of the bronchi. Increased secretion of mucus and its accumulation inside the bronchi. Asthma may appear in childhood or youth, and if it begins in childhood, it affects the male more often females, but at a later age it affects women more than men.

Aim to effect of video education on parents' knowledge among asthmatic children.

Method: Qusi-experimental design study. A purposive, non-probability sample of (20) parents. All these parents who have asthmatic child were selected based on the study criteria, and after obtaining a consent from them. The research conducted at bint Alhuda Teaching Hospital in Al Nasiriya city.

A questionnaire and video has been adopted to meet and achieve the objectives of the study. The questionnaire consists of two parts; part one demographic characteristics and part two consist of Parents' knowledge among Asthmatic Children. Take information from parent before video education and after listen to video education in emergency unite.

Result: The results revealed that the majority of study sample age within age group (25-35) accounted for (90.0%) of sample, on the other hand regarding to the residence the most of participant were lives at rural area (65.0%). There are statistically significance differences between pre and posttest for study group at P < 0.05

Conclusions: The developed educational video improved parent knowledge of asthmatic child for a facing communication barriers to quality asthma care.

Recommendation: The study should be generalized on a larger sample of parents of children with asthma to achieve better results.

Keywords: Video Education, Asthmatic Children, asthma.

Introduction

Asthma is chronic inflammatory airway disorder. Asthma is a Hospital in Al-Nasiriya city. long-term condition affecting children and adults. The air Study Sample: A purposive, non-probability sample of (100) passages in the lungs become narrow due to inflammation and parents. All these parents who have asthmatic child were tightening of the muscles around the small airways. This causes selected based on the study criteria, and after obtaining a asthma symptoms such as cough, wheeze, shortness of breath consent from them. and chest tightness. These symptoms are intermittent and are 3.4- Study Instrument and feathers, strong soaps and perfume (1).

and poor concentration. Asthma sufferers and their families may through a panel of (5) experts from different specialties. miss school and work, with financial impact on the family and Results: wider community. If symptoms are severe, people with asthma Table (1) Results of Socio-demographic Variables of study may need to receive emergency health care and they may be Sample(N=100): admitted to hospital for treatment and monitoring. In the most severe cases, asthma can lead to death (2).

Materials and methods

Study Design: Qusi-experimental design study

Study Setting: The study conducted at bint Alhuda Teaching

often worse at night or during exercise. Other common triggers A questionnaire MCO design and video has been adopted to can make asthma symptoms worse. Triggers vary from person meet and achieve the objectives of the study. The questionnaire to person, but can include viral infections (colds), dust, smoke, consists of two parts; part one demographic characteristics and fumes, changes in the weather, grass and tree pollen, animal fur part two consist of Parents' knowledge among Asthmatic Children. Take information from parent before video education Asthma is often under-diagnosed and under-treated, particularly and after listen to video education in emergency unite. Validity in low- and middle-income countries. People with under-treated is concerned with the extent to which an instrument asthma can suffer sleep disturbance, tiredness during the day, corresponds. The content validity of instrument was established

Variables	Class	Frq.	Percent.
Age	25&UN	50	50.0
	26-30	40	40.0
	31-35	10	10.0
	Total	100	100.0

Residence		Urban	35	35.0
		Rural	65	65.0
		Total	100	100.0
		Primary	35	35.0
Level	of	Secondary	40	40.0
Education		College	25	25.0
		Total	100	100.0

The results revealed that the majority of study sample age within age group (25 and below) accounted for (50.0%) of sample, on the other hand regarding to the residence the most of participant were lives at rural area 65 (65.0%). and finally related to the level of education the most of participant were have secondary level of education 40 (40.0%).

Table (2) Comparison statistics between pre and post-test Video Education for Parents among Asthmatic Children

Questions	Pretest		Post test	
	True	False	True	False
Who is most at risk of	35	65	85	15
developing asthma?				
Asthma is more common	40	60	85	15
in:				
What should a parent do	40	60	100	0
for her asthmatic child				
during the dusty season?				
Asthma is a seasonal	40	60	70	30
disease that increases				
most in the season				
Is there a scientific	75	25	100	0
method that prevents				
asthma 100%?				10
Can a person with asthma	50	50	90	10
exercise?	0.0	1.0	100	0
Does asthma appear	90	10	100	0
suddenly?			0.5	
What is the difference	65	35	95	5
between allergy and				
asthma? Asthma is a chronic	65	2.5	00	10
	65	35	90	10
disease that affects? It is one of the causes of	70	30	70	30
	70	30	70	30
asthma	70	30	80	20
The most important irritating factors for	70	30	80	20
asthma attacks are?				
The factors that affect	75	25	75	25
asthma are:	13	23	13	23
What are the main	60	40	60	40
symptoms of asthma?	00	70	00	70
Does being overweight	30	70	65	35
lead to an increase in	30	/0	0.5	33
asthma symptoms?				
What is the device used	95	5	100	0
for asthma inhalers?			100	
Are the percentages that	45	55	75	25
are placed inside the			, 5	==
nebulizer device for				
asthma patients the same?				
	·	·	·	

It is difficult to use the	90	10	95	5
nebulizer device with				
asthmatic children whose				
ages range from				

This table show statistically distribution Comparison between pre and post-test Video Education for Parents among Asthmatic Children at bint Alhuda Teaching Hospital.

Table (3): Effectiveness of Video Education for Parents among Asthmatic Children

Period	Mean	N	T	P.	Sig
	±S.D.			Value	
Pre-test	0.63±0.185	100	6.420	.000	H.S
Post -test	0.84 ± 0.061	100			

 $x \mp S.D.$ =Arithmetic Mean (x) and Std. Dev. (S.D.), F = Fisher test, d.f. = degree of freedom, P = probability value., NS: Non Significant at $P \ge 0.05$, S: Significant at P < 0.05 t=t test, N=Number of sample,

Table (3) shows there is statistically significance differences between pre and posttest for study group at P < 0.05, which mean effectiveness of video education for parents among asthmatic children at bint Alhuda teaching hospital for study sample.

Table (4): Statistical Associations of the Study Group between the Demographic Variables of Parents and Effectiveness Video Education for Parents among Asthmatic Children:

No	Demographic	statistics						
	Variables	Mean±S.D.		F	d.f	P.	Sig	
	Parent's					value		
	Knowledge							
1	Age	1.65	.671	1.340	99	0.297	N.S	
2	Educational	1.90	.788	12.867	99	0.000	H.S	
	Level				99			
3	Residency	1.65	.489	.683	99	0.575	N.S	

 $x \mp S$. D.=Arithmetic Mean (x) and Std. Dev. (S.D.), F = Fisher test, d.f. = degree of freedom, P = probability value, , NS: Non Significant at $P \ge 0.05$, S: Significant at P < 0.05.

This table show their no statistically significances differences between demographics variables (age and residency), while there is statistically significances differences between demographics variables (educational level) and Effectiveness video education for parents among asthmatic children at bint alhuda teaching hospital, when analyzed by ANOVA.

Discussion

The use of video in research is beneficial. It is relatively free from biases caused by language, culture, literacy, or interviewing technique, and may allow more valid and repeatable recognition of education (3).

It has been used to validate written questionnaires, as an epidemiology tool with older children, to measure parent knowledge, as part of an educational programme with asthmatics, and as "video diaries" showing clinician the life context for asthmatics managing their symptoms. To the best of our knowledge, it has not been used to assess parents' interpretation of children's respiratory symptoms. The recording of good quality videos proved agreement between clinicians (4). There has been growing interest in developing and validating patient-facing mobile digital tools for the self-management of

chronic conditions. Asthma-related mobile applications have Higher education levels, fully controlled asthma for asthma been inconsistently linked to improvements in clinical outcomes attacks were associated with posttest class. video can be helpful and decreases in health care utilization. In our study, we to discover different profiles of parents of children with asthma evaluated the impact of asthma, a novel, interactive, guidelines- and may assist in the development of targeted educational based smartphone application on an parent population. We interventions. demonstrated that asthma improves asthma knowledge. We These findings call into question mass asthma education observed that asthma decreased asthma-related emergency campaigns and have important implications for the design of department visits, hospitalizations, and prednisone use. These future asthma education programs. Video and print findings improve upon the available literature on the interventions can promote recall of health-related information. management of asthma using patient-facing mobile applications Additionally, reviewable materials, if they are utilized, may

As observed in Table 1, our subjects were largely representative education about asthma using audio and visual means. of the demographic characteristics of the parent, with age (25 and under years) about half of the sample.

And 65% of residence at rural area, and the highest education 1. degree of participants consisted mostly of secondary school. Kanda, J. (2022). Vulnerability for Respiratory Infections in There were some differences with study of (6), however, Asthma Patients. A Systematic Review Cureus, 14(9). between our subjects and the greater Bronx population.

scores. Through the educational videos and personalized Care Clinics, 38(2), 213-229. algorithms within the application, subjects improved their 3. comprehension of the knowledge and management of asthma AI-enabled Recruiting and selection: A review and research and subsequently parent able to manage their condition better. agenda. Journal of Business. Ethics, 178(4), 977-1007. And significant differentiation between pre and posttest by 4. mean± SD (0.84±0.061). This result confirms with study of (7) Brightling. C. E., Brusselle, G. G., Buhl, R. & Boulet, L. P. that said, investigated the impact of an in-person asthma (2022) Global Initiative for Asthma Strategy 2021 executive educator, there are few reports that have linked the use of an summary and rationale for key changes American Journal of asthma education smartphone application with sustained Respiratory and Critical Care Medicine, 205(1), 17-35. improved outcomes regarding asthma control and quality of life. 5 One recent study reported improved scores and high user K., Johns S., ... & Desch, M. (2020). Telemedical asthma satisfaction following the use of a smartphone application in a education and health care outcomes for school-age children: a cohort of subjects with uncontrolled asthma.

At table (4): our finding correlation with age, similar to (6), that *Immunology: In Practice*, 8(6), 1908-1918. found, no statistically significant association between 6. improvements in any of the outcomes and age. Our results (2020). Evaluating the ASTHMAXcel mobile application confirm that highly significant of educational level of parent and regarding asthma knowledge and clinical outcomes. this similar to study (5) that suggest that educational programs Respiratory care, 65(8), 1112-1119 Ll. can concurrently improve asthma knowledge and asthma 7 control, and thereby reinforce the findings of previous studies Technological resources in patient education and asthma selfand study of (7, 8). Also Several studies link poor asthma control management Clinical Reviews in Allergy & Immunology, 59, with suboptimal inhaler technique.

Conclusions and recommendations

of asthmatic child for a facing communication barrier to quality Nasiriyah City Hospitals. kufa Journal for Nursing sciences, asthma care. the results suggest that short, simple, culturally, 7(2). and linguistically appropriate interventions can promote knowledge gain about asthma and improve inhaler use that can be sustained over the short term.

improve retention. Thus, that is why we must provide health

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