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Type 2 Diabetes Mellitus can be Prevented in Tobacco Shop Workers

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ABSTRACT

The control of type 2 diabetes mellitus should be early and regular to prevent chronic complications and it represents a current global health problem. A descriptive observational study was conducted with 23 workers who present this condition in the cigar Factory of Camajuaní from January to September 2019, with the aim of preventing chronic complications in this type of patient. 70% of the diagnoses were made by blood glucose while fasting. The presence of chronic complications and concomitant diseases was detected, such as: Diabetic polyneuropathies, skin diseases and non-alcoholic steatohepatitis. It was detected by examinations indicated to check the health of the workers and a late diagnosis was made, in the presence of chronic complications. The need for prevention and health promotion work was evidenced by the factory reader, in order to avoid morbidity and expansion rates in workers.

Background: Type 2 diabetes mellitus, prevention is one of the lines of the staff in the cigar factory of Camajuaní.

Objective: To prevent type 2 diabetes mellitus in the cigar factory workers of the municipality of Camajuaní Cuba.

Methods: The investigation covered a period from January to September 2019; A descriptive observational study was carried out in the cigar factory of Camajuaní, where there was a sample of 23 with symptoms of the disease out of a population of 60 tobaccoursers.

Results: The presence of chronic complications and concomitant diseases was detected, such as: Diabetic polyneuropathies, skin diseases and non-alcoholic steatohepatitis. It was detected by examinations indicated to check the health of the workers and a late diagnosis was made, in the presence of chronic complications. Through the tobacco reader, health prevention and promotion actions are carried out.

Conclusion: It is evident and urgent the need to increase the work of prevention and health promotion, through the different educational means that Cuba has, in order to avoid the high morbidity and expansion rates of this disease, and to promote a more committed attitude of health personnel at the primary level. Through the Factory reader, health prevention and promotion actions are carried out.

Short Communication

Chronic complications of diabetes mellitus are one of the leading causes of disability, death and high costs in medical care. Different methods can be used to evaluate the late complications of the disease, highlighting the prevalence rate in the short or

long term. Another useful indicator is the prevalence by years of evolution [1]. Nowadays, diabetes mellitus (DM) is considered the most common endocrine disorder (it affects 2 to 6% of the world population and represents one of the biggest health problems

because it significantly increases morbidity and mortality rates [2]. The countries with the largest number of people with diabetes are mostly in Western Europe, such as Germany, Spain, Italy, Greece and the United Kingdom [3]. According to the International Diabetes Federation (a disease that is currently considered a pandemic) there are 415 million diabetics, of which three quarters live in low- and middle-income countries. By 2040, this figure is expected to increase to 642 million in the planet; and specifically, in Latin America, a prevalence of 5.7% is estimated [4]. According to data from the 2017 statistical yearbook in Cuba, [5] the DM represented in 2015 and 2016 the eighth cause of death. Not only does it constitute one of the main causes of death itself, but it is a major risk factor for cardiovascular diseases (the leading cause of death in Cuba) [6].

Materials and Methods

The study is classified as descriptive observational, belonging to the quantitative research methodology. With the aim of preventing type 2 diabetes mellitus in the workers of the cigar factory of the municipality of Camajuaní Cuba. To obtain results, methods at the theoretical and empirical levels are used [7]. At the theoretical level the analytical-synthetic, historical-logical, systemic-structural and inductive-deductive are used. At the empirical level, the classic documentary analysis, the survey, psychological observation, mathematical statistical method is used. As techniques were used the questionnaire, interview, triangulation of information and percentage analysis with the support of SPSS software and the help of descriptive statistics. Statistical processing allows analogies to be established between the results obtained and the scientific literature published around Type 2 Diabetes mellitus. The sample consists of 23 workers from the cigar factory of Camajuaní Cuba.

The inclusion criteria were:

- 1) Workers without cognitive impairments
- 2) Desire to participate in the investigation
- 3) Both genders

The exclusion criteria were:

- 1) Workers with cognitive impairments
- 2) Those who express wishes not to participate in the investigation

Exit Criteria:

- 1. Workers who voluntarily abandon research
- 2. The following variables were used based on the data obtained: age, sex. Authorization was requested from the workers of the cigar factory in Camajuaní.

Developing

The cigar Factory of the municipality of Camajuaní is a social institution. It is in the urban center of the City. It opens from Monday

to Friday for a week and another from Monday to Saturday with various activities that allow workers to socialize with each other (Table 1). All workers have knowledge of diabetes as a disease and that in Cuba it represents a health problem for people, but they do not know its symptoms. 47.83% of workers have weight loss, sometimes most of these symptoms of diabetes are not recognized by them which leads to a late diagnosis of the disease and there can be several complications (Table 2). The presence of chronic complications and concomitant diseases was detected, such as: Diabetic polyneuropathies in seven workers, skin diseases in eleven workers and non-alcoholic steatohepatitis in five. It was detected by examinations indicated to check the health of the workers and a late diagnosis was made, in the presence of chronic complications. Through the factory reader, health prevention and promotion actions are carried out.

Table 1: Distribution of the cigar factory workers of Camajuaní (Source: self elaboration).

AGE		Se	TOTAL	0/		
(Years)	Female	%	Male	%	IUIAL	%
25 – 35	3	13.04	3	13.04	6	26.09
35-45	8	34.78	3	13.04	11	47.82
45-50	4	17.39	2	8.70	6	26.09
TOTAL	15	65.21	8	34.78	23	100.0

Table 2: Diabetes knowledge(Source: self made).

Knowledge of Diabetes as a Disease	workers	%
They know	23	100.0
They don't know	0	0
Their symptoms		
Total	23	100.0

- 1. To inform workers of the main symptoms of diabetes mellitus,
- 2. To keep blood pressure below 130/80 mmHg,
- 3. To avoid smoking,
- 4. The control of pre-prandial and postprandial glycemia in people,
- 5. Periodically check the weight

Conclusion

It is evident and urgent the need to increase the work of prevention and health promotion, through the different educational means that Cuba has, in order to avoid the high morbidity and expansion rates of this disease, and to promote a more committed attitude by health personnel at the primary level (Table 3). Through the factory reader, health prevention and promotion actions are carried out. The prevention of associated risk factors (smoking, obesity, high blood pressure and dyslipidemia) and early diagnosis prevent the early onset of chronic complications (Table 4). The control of pre-prandial and postprandial glycemia in people, elimi-

nating smoking habits, periodically controlling weight, maintaining blood pressure below 130/80 mmHg and practicing physical exercise on a regular basis allow people to keep a healthy life.

Table 3: Main symptoms(Source: self made).

Principales Síntomas	Trabajadores	%	
Poliuria	1	4.34	
Polidipsia	4	17.39	
Polifagia	7	30.44	
Weight loss	11	47.83	
Total	23	100.0	

Table 4: Chronic complication(Source: self made).

Chronic complications	workers	%
Diabetic polyneuropathies,	7	30.44
Skin diseases	11	47.83
non		
alcoholic	5	21.73
Steatohepatitis		
Total	23	100.0

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