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□ INTRODUCTION:

We started in year 2000 a Disease Management program addressed at the care of diabetic patient.

OBJETIVE:

Assess efficacy of a Diabetes Control Program in our setting, comparing evolution of the patient the year before and after recruitment to the program

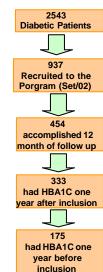
METHODS:

Design

- Controlled Trial.
- Efficacy Before-After Study.

Cohort Selection

- Diabetic patients with at least one year of affiliation
- Recruited to the program from Aug/2000 to Set/02.
- Accomplished one year follow-up within the program
- Patients having HbA1Cat enrollment one year before and one year after that date.



Outcome Meassures

- ➤ Metabolic Parameters Changes in HbA1C, Total Cholesterol, HDL
- > Clinical Parameters BMI, Blood Presure
- ➤ **Quality of Care**: Quantity of determination of metabolic parameters performed per patient per year
- ➤ Health Care Use: Ambulatory visits and admisions



□ RESULTS:

Table 1: Basal Characteristics (N=175)

1- Demographic data:	
Mean Age in years mean (SD)	64,5(13,2)
Sex (% Fem)	81%

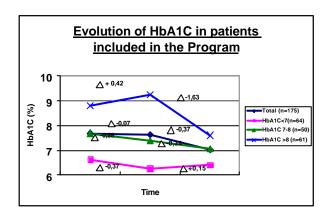
2- Pathology data:			
Time from Diagnosis years mean(SD)	10,7 (7,8)		
Type I Diabetes (%)	10,7		
Use of Insulin (%)	13,5		

3- Antecedents:			
Acute miocardial infarction % (n)	2,9 (5)		
Hypertension n % (n)	59,4 (104)		
Dislipemia n % (n)	50,3 (88)		
Smokers n % (n)	28,57 (50)		
Sedentarism n % (n)	53,71 (94)		

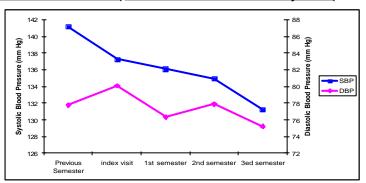
Results in the efficacy cohort. Before and after (N=175)

A- Metabolic Parameters:

Mean difference in Metabolic Parameters (SD)	<u>Year Before</u> <u>Inclusion in the</u> <u>Program</u>	Year After Inclusion in the program	<u>Difference</u>	<u>P-value</u>
-Hb A1c (n=175)	-0.073	-0.6322	-0.54	0.005
Hb A1c < 7% (n=64)	-0.38	0.15	0.53	0.02
Hb A1c 7-8 % (n=50)	-0.28	-0.34	-0.063	0.82
Hb A1c >8% (n=61)	0.41	-1.63	2.05	<0,001
-Total Cholesterol (n= 153)	-9.64	-3.74	-5.9	0.294
-HDL Cholesterol (n= 143)	1.4	-4.09	5.54	<0,001
Proportion of patients with HbA1c >7	0.63	0.44	0.19	<0,001



B- Clinical Parameters: 1- Blood Pressure in the efficacy cohort



2- Evolution of BMI of patients at recruitment and a year after (n=55)

	Recruitment	Year After	Difference	p-value
BMI	29,16	29,21	0,05	0,66

C & D- Quality of Care and Use of Health Care

C- Mean Number of Determinations Performed per patient per year	Year Before Inclusion in the Program	Year After Inclusion in the program	<u>Difference</u>	<u>P-value</u>
-HbA1c	1.92	2.54	0.63	<0,001
-Total Cholesterol	1.86	2.37	0.51	<0,001
-HDL Cholesterol	1.32	1.98	0.66	<0,001

D- Percentage of patients using care resources %(n)	Year Before Inclusion in the Program	Year After Inclusion in the program	<u>Difference</u>	P-value
-Retinal exam	21,7 (37)	33 (56)	11.3	0.0015
-Foot Exam	8,57 (15)	37,7 (66)	29.1	<0,001
-Admissions	13,71 (24)	16 (28)	2.3	n/s
Programed visits				
-PCP visits	87,43 (153)	88,6 (155)	1.17	n/s
Unprogramed visits				
-Emergency Room	32,57 (57)	42,3 (74)	9.7	0.009

DISCUSION: HbA1C and Blood pressure were parameters that achieved better results.

As to qualiy of care, parameters reached previously fixed goals. Use of Nurse and Ophtalmologist visits increased ensuring a better and earlier diagnosis of complications, however higher proportion of patients are to be reached

CONCLUSIONS: As shown elsewhere DM is efficacious to control diabetes, further efforts are to be undertaken on lipids control. New strategies are currently being applied to improve results, as reminders, phone contact with patients.