

Impact of a specific risk factors unit intervention on clinical outcomes in patients with type 2 diabetes after myocardial infarction

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Introduction	In our setting, it is quite common that control of major risk factors of patients with type 2 diabetes (T2D) after myocardial infarction (MI) is not made by specific risk factors units (SRFU). Here, we conducted a preliminary study to investigate the effects of a SRFU intervention on metabolic and cardiovascular outcomes in T2D patients who suffered from MI.
Methods/	This retrospective and observational study was performed in one single centre.
Design	Data related to metabolic and cardiologic variables were collected at discharge and at 6 and 12 months of follow-up.



Design

Variables were compared according to whether risk factors control was made by SRFU or other specialties after discharge.

## Results

Data from forty-eight patients were collected. Demographic and clinical data are summarized in TABLE 1.

27.5% were referred to SRFU after discharge. Antidiabetic treatment was changed in 48.7%. Among patients whose treatment was changed, add-on strategy was the most used way to switch it (63.2%). Patients referred to SRFU were more likely to undergo changes in treatment (81.8% vs 35.7%; p = 0.01).

A1C reductions were higher among patients under SRFU control at 6 and one year and rates of new hospitalizations due to heart failure as well as mortality by any cause were lower in SRFU group. Nevertheless, non-significant differences were observed between groups (TABLE 2).

Table 1: Demographic and clinical data.					
Age (years; mean ± SD)	70.6 ± 8.7				
Gender: male (%)	47.9				
Current smokers (%)	10.4				
Hypercholesterolemia	66.7				
Hypertrygliceridemia	35.4				
Hypertension (%)	79.2				
Microvascular complications:					
Retinopathy (%):	25				
Nephropathy (%):	25				
Neuropathy (%):	12.5				
Peripheral Arterial Disease (%)	79.2				
Chronic renal disease (%)	75				
Number of antidiabetic treatments:					
One drug (%):	47.8				
Two drugs (%):	39.1				
Three or more (%):	2.2				

	At 6 months		At 12 months	
	SRFU	Others	SRFU	Others
A1C reduction (%)	-0.74	-0.69	-0.92	-0.65
LDLc reduction (mg/dL)	-73.7	-77	-36	-25.8
TG reduction (mg/dL)	-19.9	-29.4	-65.1	-67.6
BP on target (%)	75	74.1	62.5	73.9
New admisions due to HF (%)	18.2	21	0	5.5
Mortality; any cause (%)	0	13	0	5.5

SRFU: specific risk factors units; TG: tryglicerides; BP: blood pressure; HF: heart failure.

Non significant differences were observed between units at 6 and at 12 months.

SD: standard division.

Conclusions

Our results show a non-significant trend toward to improvement of metabolic and cardiovascular outcomes among patients that were referred to SRFU after MI.

These differences were more remarkable when follow-up time was longer.

Though further studies with a larger number of patients are ongoing in our Hospital, we conclude that referrals to a SRFU should be recommended in these patients.



