Abstracts C153

P252 PROTOCOL FOR TELEHEALTH MANAGEMENT AND STRATIFICATION RISK OF ELDERLY PATIENTS WITH CHRONIC HEART FAILURE DURING THE COVID-19 PANDEMIC: A MID-TERM PROGNOSTIC EVALUTATION BY TELEHFCOVID-19 SCORE

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Introduction: The Coronavirus Disease (COVID-19) pandemic and its consequences has forced physicians to develop telematic methods in order to follow up patients with cronic diseases, such as heart failure (HF).

Objectives: To evaluate TeleHFCovid-19 score as a mid-term (six months) prognostic score in terms of prediction of hospitalitazion and cardiovascular mortality in patients with chronic HF during Covid-19 pandemic.

Methods: During COVID-19 pandemic (from March 2020 to May 2020), we were forced to cancel nearly all follow-up checks in our HF outpatient clinic. We hence standardized a telephone follow-up by developing a questionnaire (Fig. 1) from which we then obtained a score, later called the "TeleHFCovid-19 score" (0-29). This score stratified patients in three risk score groups: green (0-3), yellow (4-8), and red (\geq 9), for which the next telefonic evaluation was planned after 4, 2 and 1 weeks, respectively.

Results: 146 patients were enrolled: 112 were classified as green, 21 as yellow and 13 as red. Mean age was 81 years, females were 40%. Approximately one third had EF < 40%. At six months, compared to red (69.2%) and yellow patients (33.3%), green patients (8.9%) presented a significantly lower rate of the composite outcome of cardiovascular death and/or HF hospitalization, (p < 0.001, Fig 2). Multivariate analysis showed that high levels of creatinine (OR 5.960, 95% CI 1.627-21.837, p = 0.007), dyspnea at rest or for basic activities (OR 2.469, 95% CI 1.216-5.013, p = 0.012) and a high loop-diuretic dosage (OR 6.224, 95% CI 1.504-25.753, p = 0.012) were indipendently associated with the outcome. Moreover, ROC analysis showed a high sensibility and specificity for our score at six months (AUC = 0.789, 95% CI 0.682-0.896, p < 0.001), with a score < 4.5 (very close to the green group cut-off) that identified lower-risk subjects (Fig 3).

Conclusions: The TeleHFCovid-19 score was able to correctly identify patients with good outcomes at six months. Furthermore, it has the ability to stratify the adverse event risk and this could represent a useful tool to appropriately schedule the reevaluation timing of these patients and to identify those who may need urgent hospital evaluation.

HF - OUTPATIENT CLINIC TELEPHONIC CONSULTING

Date		Code		Date of birth		nder: □F □M	
1. Intervier					13. Body weight:		
Patient					Available (Kg):		
	Caregiver				□ Not available	e	
	Both						
2. Living s	ituation:				14. Body weight trend f	rom the last clinical contact/evaluati	cn:
Hive alone				Increasing Stable	(>1 Kg)	(I point)	
- 0	I live with my family I live with a caretaker h 24						
	I live with a caretaker is 24				Decreasing Not applicab	de-	
	Hive in a nursing home / rest home				Not appareas	40	
	emotional status: how would you de				16 M downware is neces	nt, for which activities does it appear	
2. 157000	1 2 3 4	5				tivities (doing housework, going up	
Poor D D D D Great					 Basic activities of daily living (walking inside home, dressing, 		
				showering		(1 point)	
					□ At rest/PNI	D'Orthopnoca	(3 points)
4. Who is	in charge of the purchase of essentia	items, food and n	nedicines'	? (Mark	16. Other symptoms and	For signs (check all that apply):	
only one o	ption)				□ Wenkness.		
□ I can provide them on my own					□ Angina		(2 points)
My family provides them for me				Palpitation		(I point)	
	I get help from voluntary association	on / Civil Protectio	/ Civil Protection		□ Suspected s		(2 points)
D	I use home-delivery				□ New/worse	ning extremities oedemas	(1 point)
D	Other						
5. Who tak	ies care of handling medications?				17. How do you feel cor	mpared to the last clinical contact/ev	alustion?
	I am responsible for taking medica	tion in correct dos	ages at co	erect time	Better		
13		lications are prepa	red in adv	vance and	□ Worse		(I point)
	in separate dosage by my caregive				Almost the:	same	
D	Medications are completely handle	d by caregiver					
6. Do you	ever forget or voluntary omit to take	your medications'				d contact/evaluation, have you been	examined by your
	Yes			(1 point)	Family Doctor?		
0	No				□ Yes		
					D No		
7, Current	therapy (check all that apply):				19. Did you have recent	blood tests (from the last clinical co	etact/evaluation)?
		Yes	No.				
					□ Yes	Date of last blood tests:	
Beta-block	iers	0	12		D No		
ACE-VARB							
				Creatinine (mg/dl):			
Sacubitril/Valsartan		0 0		□ WRF (> 0.3 mg/d	L)	(I point)	
MRA		O.	0		Nt-proBNP (pg/ml):		
DOACs/w	arfarin	n	13				
					□ Increasing > 30%	than previous value	(I point)
DAPT		0	0		Haemoglobin (gidl):		
Diuretics (Furosemide)	0 0			K+ (mEq/L):		
Dispeties	high dose (eg. Furosemide ≥250 m	pidie) :	D	(I point)			
		pane)			Sodium (mEq/L):		
Metolazor			0	(1 point)			
	retic therapy been up-titrated from t	ne tast clinical con				TIVE (NF swab) to SARS-CoV-2 is	ntection?
	Yes No			(I point)	□ Yes (Dute:		
		-					
	control the amount of fluid intake de	ring the day?			21. From the last clinica	l contact/evaluation, did you seek as	ssistance from
	Yes					ices or have you been admitted to er	nergency
	No	(1 point)		(I point)	department/hospitalised?		
					U Yes		
10 1	u monitoring regularly SBP, HR and	15-4					
10. Are yo	u monitoring regularly SBP, HR and Yes	body weight?			22. If Yes, why? COVID-19	mithaut RE	(2 points)
0	No			(1 point)	COVID-19	with RE	(3 points)
				(s beant)		PE or other serious CV causes	(3 points)
					O Other:	scimes c. causes	(> perma)
11. System	nic blood pressure (mean of last 3 va	lors - meditor:				macological modifications:	
n	<100	<100 (I point		(I point)	23. Recommended pharmacological modifications: GDMTs down-titration/withdrawal (I point) Loop diuretic dose increase (2 points)		
D	100-130		(1 pount)				
0	130-160					(2 points)	
	>160			(1 point)			
0	Not applicable				TeleHFCovid19-Score	/29	
12. Heart r	rate (mean of last 3 values - bpm):						
	<50			(1 point)	<4 GREEN PATIENT	: Schedule next FU at 1 mont	
0	50-69				4-8 PATIE		
0	70-100				≥9 RED PATIENT:	Schedule next FU within 1	week or consider
			(1 point)	urgent hospitalisation			
.0							



