Clinical Presentation of Stress Related Acute Heart Conditions Depends on Cardiac Background and Patients' Demographics

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Background: Apical ballooning syndrome (ABS), ACS and life-threatening situations such as arrhythmias (VT, VF) or pulmonary edema (PE) could be triggered by stress.

Aim: To evaluate the influence of cardiac backgrounds and patients' demographics on manifestation of acute heart conditions related to stress.

Methods: Clinical manifestation, ECHO, angiographic data and long term MACE were evaluated in 17 patients who developed heart disease triggered by stress.

Results: All patients were divided into 3 groups. STEMI group included 8 patients with typical clinical and ECG criteria and documented coronary lesions. ABS group included 6 patients with a reversible course of apical CMO and open coronaries. A third group included 3 patients requiring critical care due to fulminate pulmonary edema and/or recurrent VT.

	ABS	STEMI	Critical situations
Trigger	Emotional stress during 5 days before admission		
N	6	8	3
Gender	F only	M only	F only
Age	45 - 65	48 – 66	68 - 76
Previous history	Apical ballooning	IHD + PCI (n=1)	IHD after MI (n=1)
	(n=1)		MR (n=1)
			Long term HTN (n=1)
Previous information	Normal (n=1)	Normal (n=2)	Decreased LV function
about LV function			(n=3)
(ECHO)			Significant MR (n=2)
Clinical presentation	Apical ballooning	Ant wall MI (n= 5)	Pulm. edema (n=2)
	sm (n=6)	Inf wall MI (n=3)	VT storm (n=2)
Angiography	Normal coronaries	Culprit lesion:	TVD (n=2),
	(n=6)	LAD (n=5), RCA	Not performed (n=1)
		(n=2), CX (n=1)	
Treatment	Medication	Medication	Medication
		Coronary Stenting	Revascularization (n=1),
		(n=8)	AICD (n=1)
Follow up (months)	8(4-19)	9 (3 – 14)	5 - 13
Hospitalizations	0	1	2
Interventions	0	0	0
Mortality	0	0	1

Conclusion: Patients' demographics and cardiac backgrounds are significant factors influencing the clinical form of heart disease triggered by stress.