

Prevalence of infection and effect of diabetes on clinical presentations of patients diagnosed with ischemic heart disease admitted to coronary angiography

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INTRODUCTION

Introduction: Patients with Ischemic heart disease (IHD) have multiple risk factors and present to the hospital with different symptoms and some of these symptoms were a typical. We aimed to investigate the clinical presentation and prevalence of infection among patients with IHD admitted to a coronary catheterization.

METHODOLOGY

We conducted a cross-sectional study at a tertiary hospital for all patients with IHD admitted to coronary catheterization between November 2020 to February 2021. All patients with IHD who didn't admit to coronary catheterization or managed only with medical treatments were excluded. Clinical presentation and prevalence of infection were obtained from participants.

RESULTS

Of the 250 patients, diabetes mellitus was reported in 109 (43.6%) of IHD patients. Furthermore, hypertension was more frequent among diabetic patients (57.8% vs 37.6%). Four viral infections were detected among our included IHD patients who underwent coronary catheterization. Of them, two were suffering from HIV infection (0.8%), and the other two were suffering from HBV infection (0.8%). Regarding coronary artery disease presentation of all participants, the most frequent presentation was STEMI (n= 124, 50.0%) followed by NSTEMI (n=77, 31.0%), and unstable angina (n=38, 15.3%). Chest pain was the first common presenting symptom among IHD patients (n=241, 96.4%), followed by sweating (n=25, 10,0%), and shortness of breath (n=23, 9.2%). Sweating was more prominent in diabetic compared to non-diabetic patients (11.9% vs 8.5%) but without any significant difference.

CONCLUSION

- Our results showed no significant difference in the presenting clinical symptoms between diabetic and non-diabetic patients with IHD, and a low prevalence of infection.

Table

Presenting symptoms:	250				0.01
Chest pain	241 (96.4%)	106 (97.2%)	135 (95.7%)	8	0.7
Nausea	12 (4.8%)	4 (3.7%)	12 (5.7%)	3	0.5
Sweating	25 (10.0%)	13 (11.9%)	12 (8.5%)	7	0.4
Dyspnea	4 (1.6%)	1 (0.9%)	3 (2.1%)	7	0.6
Palpitation	11 (4.4%)	4 (3.7%)	7 (5.0%)	9	0.8
Vomiting	16 (6.4%)	7 (6.4%)	9 (6.4%)	12	>0.9
Shortness of breath	23 (9.2%)	11 (10.1%)	12 (8.5%)	1	0.7
Dizziness	2 (0.8%)	1 (0.9%)	1 (0.7%)	0	>0.9
Faintness	0 (0.0%)	0 (0.0%)	0 (0.0%)	9	
Other	14 (5.6%)	5 (4.6%)	9 (6.4%)	14	0.5
If other specify:45	14				>0.9
Claudication	1 (7.1%)	1 (20.0%)	0 (0.0%)	3	
Epigastric pain	5 (35.7%)	2 (40.0%)	3 (33.3%)	1	
Heaviness	1 (7.1%)	0 (0.0%)	1 (11.1%)	1	
Hx of ischemic heart disease-Hx of LL ischemia-known case of burger's disease	1 (7.1%)	0 (0.0%)	1 (11.1%)	1	
Lower limb swelling	1 (7.1%)	0 (0.0%)	1 (11.1%)	0	
Pale	1 (7.1%)	1 (20.0%)	0 (0.0%)	1	
Productive cough, paroxysmal nocturnal dyspnea	1 (7.1%)	0 (0.0%)	1 (11.1%)	1	
Retrosternal pain	1 (7.1%)	0 (0.0%)	1 (11.1%)	1	
Tightness	2 (14.3%)	1 (20.0%)	1 (11.1%)	1	