ACC.15
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A1607
JACC March 17, 2015
Volume 65, Issue 10S

Stable Ischemic Heart Disease

LONG TERM MORTALITY RATES IN UNITED STATES VETERANS WITH CORONARY RISK FACTORS, WITH OR WITHOUT SIGNIFICANT CORONARY ARTERY DISEASE

Poster Contributions
Poster Hall B1
Saturday, March 14, 2015, 10:00 a.m.-10:45 a.m.

Session Title: Risk Markers, CAD, Prognosis
Abstract Category: 26. Stable Ischemic Heart Disease: Clinical
Presentation Number: 1123-374

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Background: Coronary artery disease (CAD) is a major cause of death in United States. Mortality rate in US Veterans with coronary risk factors, with or without CAD are not well known. We did a retrospective study to compare the all-cause mortality rate in patients with obstructive CAD, nonobstructive CAD and normal coronaries based on angiographic findings.

Methods: Cardiac catheterization data in a Veterans Affairs hospital was retrospectively collected on 1002 patients (Oct 2001-Jul 2004). Based on angiographic data, patients were divided into 3 groups, obstructive CAD, nonobstructive CAD and normal coronaries, and all-cause mortality rate was assessed after a mean follow up of 7.5±3.5 years.

Results: The clinical characteristics are listed in table 1. All-cause mortality rates were 49.5% (obstructive CAD), 39.9% (non-obstructive CAD), and 31.6% in normal coronaries. These rates are higher compared to non-Veteran population as shown in REACH Registry, where the all-cause mortality rate in patients with risk factors only was 8.3% after a mean follow up of 4 years. Relatively high mortality rate in this cohort, without significant CAD may be due to excess burden of major cardiovascular risk factors as shown in table 1.

Conclusion: In this study, high mortality rate was noted in all 3 groups with or without significant CAD. The association of risk factor burden with mortality needs further evaluation in this population.

Table 1

Variable	Obstructive CAD n=728	Nonobstructive CAD n=138	Normal coronaries n=136
Age (years)	64.3±10.1	62.8±10.3	57.1±12.1
BMI	29.7±5.6	30.2±6.3	30.5±7.1
Hypertension (%)	650 (89.3)	121 (87.7)	103 (75.7)
Diabetes (%)	343 (47.2)	55 (39.9)	38 (28.1)
Hyperlipidemia (%)	606 (83.2)	111 (80.4)	73 (53.7)
Smoking (%)	290 (40.1)	52 (37.7)	54 (40)
LDL (mg/dl)	100.5±36.3	93.8±33.8	105.3±32.7
Creatinine (mg/dl)	1.1±0.9	1.1±0.8	1.06±0.4
CKD (%)	119 (16.3)	17 (12.3)	13 (9.5)
LVEF (%)	45±12	49±13	52±12
LBBB (%)	37 (5.1)	8 (5.8)	4 (2.9)