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Prevalence of coronary atherosclerosis in patients with risk factors for coronary artery disease detected on mdct calcium scoring in a community practice in SC

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Recent studies have shown that calcium scoring is important tool in risk stratification of intermediate risk group. The Purpose of this study is to evaluate the prevalence of coronary atherosclerosis in patients with risk factors for coronary artery disease with MDCT Calcium scoring in a community practice in Greenville, South Carolina.

This study is a retrospective chart review of 1250 patients who underwent calcium scoring to assess coronary atherosclerosis from January 2010 to December 2011. The Study population included patients with at least one of the following risk factor for coronary artery disease, Hypertension, smoking, diabetes, Hyperlipidemia, family history of coronary artery disease, and sedentary life style [figure1]. Giving the above data; we conclude that 61% of our study population had zero calcium scoring, 39% showed coronary atherosclerosis on MDCT scan, 18% had calcium score >400 suggestive of significant atherosclerosis.

PATIENT CHARACTERISTICS

Age	35-85 years median age of 60 years
Sex	Male 606/1250 (49%) Female 644/1250 (51%)
Hypertension	621/1250 (49%)
Diabetes	151/1250 (12%)
Hyperlipidemia	472/1250 (37%)
Smokers	424/1250 (33%)
Family History of CAD	572/1250 (47%)
Sedentary Life Style	362/1250 (28%)

RESULTS

Calcium Score	Number of Patients (%)
0	772/1250 (61%)
1-100	118/1250 (9.4%)
101-399	133/1250 (10.6%)
> 400	227/1250 (18%)

Keywords:

Hypertension; Coronary Atherosclerosis; Calcium Scoring

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