314 ABSTRACTS

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Chronic Stable Angina (CSA). The exact pathogenesis of CSFP is unknown, but 80% of patients experience recurrent episodes of typical anginal pain which results in impairment of quality of the life. Endothelial Dysfunction, Inflammation and diffuse atherosclerosis are various proposed pathogenesis of CSFP. CSFP causes significant cardiovascular morbidity due to dynamic ECG changes and symptoms worsening necessitating recurrent hospitalization and they tend to undergo repeated investigations like Coronary Angiogram.

Aim: To see clinical characteristics like risk factors and others of coronary slow flow phenomena.

Methods: A total of 45 patients over a period of 6 months with Non Obstructive coronaries below the age group of 60 years who presented with Ischemic Heart Disease were studied. Coronary Slow Flow was identified using thrombolysis in myocardial infarction (TIMI) frame count (TFC) method introduced by Gibson. TIMI-2 flow grade (i.e. requiring ≥3 beats to opacify the vessel) or a corrected TIMI frame count >27 frames have been frequently used. The later is based upon images acquired at 30 frames/second and a correction factor of 1.7 for the LAD Risk factors and profiles of all the patients were studied in detail. Those patients who had Coronary Artery ectasia, coronary aneurysm, ventricular dysfunction, valvular heart disease and connective tissue disorders. were excluded.

Results: Out of 45 patients presented with CSFP 95% were males and 5% females with a mean age of 47 years. CSA with Positive Stress Test were 65%, 15% had Unstable Angina and 25% presented with Myocardial Infarction with Positive Troponin I test . Dynamic ECG changes were present in 30% of the cases. Analysing the risk factors, most of the patients had uncontrolled hypertension (75%) and also were smokers (65%). Diabetes was prevalent in 60% of cases and dyslipidemia in 35% of cases. There were no mortalities noted in hospitalized patients. Conclusion: CSFP was prevalent in wide spectrum if Ischemic Heart Disease presenting as CSA and Acute Coronary Syndrome. Most of the patients presented with CSFP were smokers and had uncontrolled Hypertension.

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37. Restoration of normal left ventricular geometry after percutaneous mitral annuloplasty – Case report and review of literature

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Surgical mitral valve intervention is not considered suitable in patients with severe functional mitral regurgitation due to severe dilated cardiomyopathy and severe systolic dysfunction. In such patients percutaneous mitral valve intervention is the next best alternative. We are presenting case report of a patient who presented with severe dyspnea progressing to orthopnea and paroxysmal nocturnal dyspnea. He was found to have

severe functional mitral regurgitation and severe left ventricle systolic dysfunction. Surgical mitral intervention was not considered suitable and percutaneous mitral annuloplasty was done. At one month follow-up significant improvement in symptoms were noted with improvement in severity of mitral regurgitation severity. At six months follow-up further improvement in symptoms were noted along with significant improvement in the severity of mitral regurgitation and normalization of left ventricle geometry. At one year follow-up his symptoms further improved, left ventricle geometry remained normal and mitral regurgitation severity remained mild to moderate.

Our case demonstrate that in patient with severe LV systolic dysfunction, severe mitral regurgitation and LBBB percutaneous mitral annuloplasty can obviate the need for CRT-D due to significant improvement in LV function and geometry along with regression in severity of mitral regurgitation. Improvement in mitral regurgitation severity and LV geometry started early and kept improving with excellent result at 6 and 12 months.

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38. Is there a correlation between diastolic dysfunction and coronary artery disease on coronary CT angiography?

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Background: We investigated the relationship of coronary artery calcium score (CCS) and presence of coronary artery disease (CAD) on coronary CT angiography (CCTA) and measures of LV diastolic dysfunction (DD). Methods: We included 527 consecutive patients (39% women; mean age, 49 ± 12 years) without known CAD who underwent coronary CTA and transthoracic echocardiography within one month. CAD was evaluated on a per-vessel, and per-segment basis for intraluminal diameter stenosis by using a 16-segment model and summed over segments to obtain overall coronary plaque burden (segment involvement score [SIS]; maximum = 16). Transthoracic echocardiography evaluated mitral inflow E wave-to-A wave ratio (EAR), tissue Doppler early mitral annual tissue velocity axial excursion and stage of diastolic dysfunction.

Results: A total of 189 patients (36%) had DD with 50 patients (9.5%) had more than stage 2 DD. The presence of DD was associated with increasing CCS (p < 0.001). Similar, there was a statistically significant correlation between EAR and CCS (r = -0.152, p = 0.002) and SIS (r = 0.536, p < 0.001). The prevalence of more than stage 2 DD increased with the presence of obstructive CAD (12% versus 6%, p = 0.020) and number of obstructive vessels (p = 0.013). In multivariable analyses, the independent predictors of more than stage 1 DD included age (p < 0.001), LV ejection fraction (p < 0.001) and