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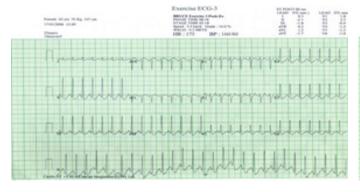
Episodic Ischemia on Treadmill Testing

Ramachandran Muthiah

Morning star hospital, India

46 yrs. old a female medical practitioner was rushed to the emergency department with a sudden onset of chest discomfort. Her heart rate is initially 110 bpm and later became normal and the blood pressure was in the normal range. ECG, X-Ray chest and blood chemistry were normal. Echocardiography revealed no abnormalities. After 48 hrs observation, she was subjected to Treadmill exercise test. She achieved 9.2 METS at heart rate of 175 in Bruce protocol stage 3 at peak exercise test. She developed chest discomfort with sweating at peak exercise and the test was stopped. The ECG in stage 3 at peak exercise revealed rapid up- sloping of ST segment which immediately return to normal in the recovery period. She was advised to cardiac CT angiography as a screening test. Right coronary artery is not visualized in the Right AV groove and no anomalous vessel is passing either anterior to the pulmonary artery or in between pulmonary artery and aorta. Cardiac MR angiography revealed non visualization of the clear cut origin of Right coronary artery from the aortic root. Aortic root angio revealed non visualization of the origin of Right coronary artery. Runs of the coronary angiogram revealed retrograde filling of right coronary artery as a continuous flow from Left circumflex coronary artery and there is delayed filling in the proximal portion of the Right coronary artery. Other views revealed Left circumflex coronary artery is continuing to form the Right coronary artery, a rarest coronary anomaly.

The point of importance from this case study is rapid up sloping of ST segment at peak exercise with rapid normalization in the recovery phase in Treadmill Testing may be due to episodic ischemia related to tachycardia with the heart rate of more than 160 bpm is significant and warrants further cardiac evaluation. The patient was symptom free without any medications on follow up of 10 years and now aged 60 years.





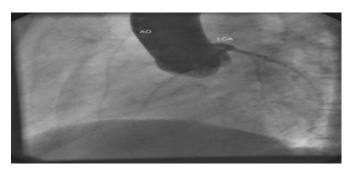
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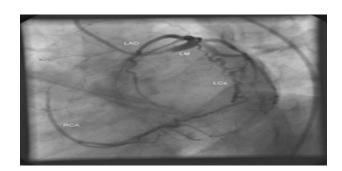
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Publications

- 1. Muthiah, R. (2021) Isolated Acute Rheumatic Pancreatitis—A Case Report. Case Reports in Clinical Medicine, 10, 52-77
- 2. Muthiah, R. (2019) Infective Endocarditis in Tetralogy of Fallot Complicating Brain Abscess—A Case Report. Case Reports in Clinical Medicine, 8, 105-126
- 3. Muthiah, R. (2018) Native Aortic Valve Endocarditis—A Case Report. Case Reports in Clinical Medicine, 7, 483-504.
- 4. Muthiah, R. (2018) Tropical Coronary Artery Disease and Arrhythmogenic Potentials—The Changing Pattern towards Endomyocardial Fibrosis—An Analysis. Case Reports in Clinical Medicine, 7, 397-429
- 5. Muthiah, R. (2018) Isolated Patent Ductus Arteriosus in an Elderly Female, Aged 65 Years—A Case Report. Case Reports in Clinical Medicine, 7, 352-379.

Biography

Ramachandran Muthiah, Consultant Physician & Cardiologist, Zion hospital, Azhagiamandapam and Morning star hospital, Marthandam, Kanyakumari District, India. Born on 10/5/1966.. Mother Swornam belongs to keezhkulam village and Father Muthiah belongs to Enayam thoppu and both were farmers. Published many papers in Cardiosource, American College of Cardiology Foundation, Case Reports in Clinical Medicine (SCIRP) and Journal of Saudi heart assocoation.

cardioramachandran@yahoo.co.uk