

14th International Conference on

Clinical & Experimental Cardiology

November 14-16, 2016 Orlando, Florida, USA

The unusual cause of dangerous arrhythmias at the young- An original case report

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The main objective of this clinical case presentation was to find the real cause of dangerous arrhythmias (frequent premature ventricular beats polymorphic, polytopic and repeated passes of non-sustained ventricular tachycardia) at a young patient. I present the clinical case of a young woman patient 21 years old, who came at the consultation for irregular palpitations after increase physical effort—mountain climbing—her favorite sport activity. At the objective examination, were found irregular heart beats HR=98beats/min, without murmur heart or added sounds, BP=150/90mmHg, normal vesicular breath sound on the lung. The EKG showed: sinus rhythm, HR=98beats/minutes, many premature ventricular beats looks polymorphic, polytopic and a short pass of a non-sustained ventricular tachycardia (less than 30 seconds). The patient was monitored and followed antiarrhythmic therapy with xilin iv bolus 1mg/kg body and after that double dose of xilin 1% I.V. in perfusion during the first 24 hours with disappears of the dangerous arrhythmias and after that remain on beta-blocker therapy- Carvedilol 6, 25 mg daily. In the first instance these dangerous arrhythmias were put in context of increase physical effort. The usual laboratory tests and the specific cardiac enzymes: Troponin I and CPKMB were in normal range and was excluded a heart attack. The levels of TSH, Free T3, FreeT4 were normal and the thyroid ultrasound - normal, excluding a possible thyroidal disease(hyperthyroidism-Basedow Graves disease or toxic thyroid adenoma and cardiomyopathy). The level of electrolytes (potassium, magnesium, calcium, sodium, chloride) were normal so a dyselectrolytemia was excluded like a cause of these dangerous arrhythmias. A Holter monitor (24h) was performed and put in evidence, unexpected, two short passes of non-sustained ventricular tachycardia (less than 30 seconds) and a few premature ventricular beats polymorphic and need iv. Anti-arrhythmic therapy again with good evolution of the patient and remain on Carvedilol 6,25mg (2X1tb/daily) with good control of these. Trans-thoracic echocardiography put in evidence unexpected a solid mass inside of the left ventricular cavity. This unexpected formation put problem of differential diagnosis regarding the etiology: a thrombus? a vegetation formation but this must to be present on a valve in endocarditis not in this area, a cyst? a tumor formation? Transesophageal echocardiography (TEE) showed the same solid mass inside of the left ventricular cavity. The patient was referred to the Cardiovascular Surgery Department. The formation was removed from the left ventricular cavity and the result of the histopathological examination confirmed safe the diagnosis of ventricular myxoma. The atrial myxoma is common in medical literature, but rare. Ventricular myxoma is very uncommon, rare and sometimes can develop so dangerous arrhythmias like repeated passes of ventricular tachycardia and also premature ventricular beats polymorphic and polytopic and can put in danger patient's life because of risk of degeneration in ventricular fibrillation and cardiac arrest. Conclusion: sometimes, rare, unknown ventricular myxoma could be the real cause of dangerous arrhythmias in the young and must to be removed.

Biography

Manuela Stoicescu is Consultant Internal Medicine Physician (PhD in Internal Medicine), Assistant Professor of University of Oradea, Faculty of Medicine and Pharmacy, Romania. She was invited as speaker at more than 30 International Conferences in USA, China, Japan, Canada, Thailand, Dubai, Spain, Germany, she is Committing Organizing Member at many International Conferences, is editorial board member in two ISSN prestigious Journal in U.S.A., published more than 30 articles in prestigious ISSN Journals in U.S.A., published five books (two on Amazon— one is "Sudden cardiac death in the young"), one monograph and two chapter books – Cardiovascular disease: Causes, Risks, Management CVD1- Causes of Cardiovascular Disease 1.5,1.6, U.S.A on Amazon.

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