**Title**

A case of aortitis and saccular aortic aneurysm caused by rare aetiological organisms, Streptococcus

constellatus and Parvovirus B19, and atherosclerosis

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**Abstract**
Aortitis and mycotic aneurysm are vascular conditions characterized by inflammation of the aortic wall or the presence of an aneurysm resulting from microbial infection. This is a rare case of aortic aneurysm caused by atherosclerosis, with Streptococcus constellatus and Parvovirus B19 infection, in a 60-year-old male. The patient presented with rigors and pleuritic chest pain. Echocardiography revealed the

presence of a moderate pericardial effusion with no diastolic cardiac chamber collapse, normal left ventricular function and unremarkable cardiac valves. Three sets of blood cultures showed no microbial growth. A syphilis screen was performed in view of the aneurysm and was negative. A computed tomography (CT) aortic angiogram was performed and was found to have a saccular aneurysm of the ascending aorta and pericardial effusion. The patient underwent urgent replacement of the ascending aorta and the samples taken during surgery revealed that his aortic tissue culture PCR result was positive for streptococcus constellatus. His blood serology showed IgG and IgM Parvovirus B-19. Patient completed 6 weeks of antibiotics with good recovery. This case emphasizes the importance of considering rare organisms in patients with aortitis and mycotic aneurysm, particularly in cases with blood cultures without microbial growth. Early diagnosis and treatment may be essential for the prevention of life-threatening complications.

**Biography**
Dr. Aly Amer brings a blend of passion and dedication to the realm of medicine. With a focus on innovative evaluation methods and a commitment to enhancing healthcare. He began his medical career in Egypt, where he worked in cardiology department and paricipated in Quality Improvement Projects (QIPs). Recognizing the UK's advanced healthcare system, Aly moved there to further his career.

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