

Global Summit on **CARDIOLOGY AND CARDIAC SURGERY**

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**A rare encounter of mitral arcade with anomalous papillary muscles****Ranbir Singh and Maureen Wang***New York-Presbyterian Brooklyn Methodist Hospital, USA*

A congenital mitral arcade is a rare heart structural abnormality that affects the structure of the papillary muscles and chordae tendinae. This structural deviation impacts the mitral valve's functional capability, which is why most patients with this condition develop complications such as mitral stenosis or regurgitation. Some patients can obtain successful mitral valve repair. However, most will still need to get a mitral valve replacement. This case presented a young, 24-year-old female who was found to have a mitral arcade and underwent mitral valve repair. She had a history of persistent tachycardic episodes at home that would usually last for about 30 minutes the past 14 years and were triggered by warm showers, coffee, or anxiety. However, on the day of her admission, her palpitations lasted for over one hour which prompted her to come to the Emergency Department. From her echocardiogram, it was discovered that the structure of her mitral valve was abnormal and surgical intervention confirmed Mitral Arcade. It appeared from this case that a direct family history of cardiac disease may place patients at risk of developing mitral arcade as the patient's mother had a history of hypertrophic cardiomyopathy requiring a heart transplant. Mitral Arcade seems to be a rare phenomenon as there have been few other case reports on patients presenting with this finding. When assessing a patient with mitral stenosis or mitral regurgitation with a family history of structural cardiac disease, mitral arcade should be considered as part of the differential diagnosis.

**Biography**

Ranbir Singh is a Resident Physician at Brooklyn Methodist Hospital in Brooklyn, New York, USA. He is currently in his post graduate year two and will be completing his Internal Medicine Residency program in June 2023. He attended medical school at Ross University School of Medicine in Barbados and graduated in 2020. His fields of interest include cardiology and gastroenterology. Dr. Singh strives to find cases that may exhibit gender differences in cardiac pathology. Outside of cardiology, Dr. Singh is a strong proponent in equal access to screening colonoscopies, especially in the underserved communities and has written multiple studies exploring this topic.