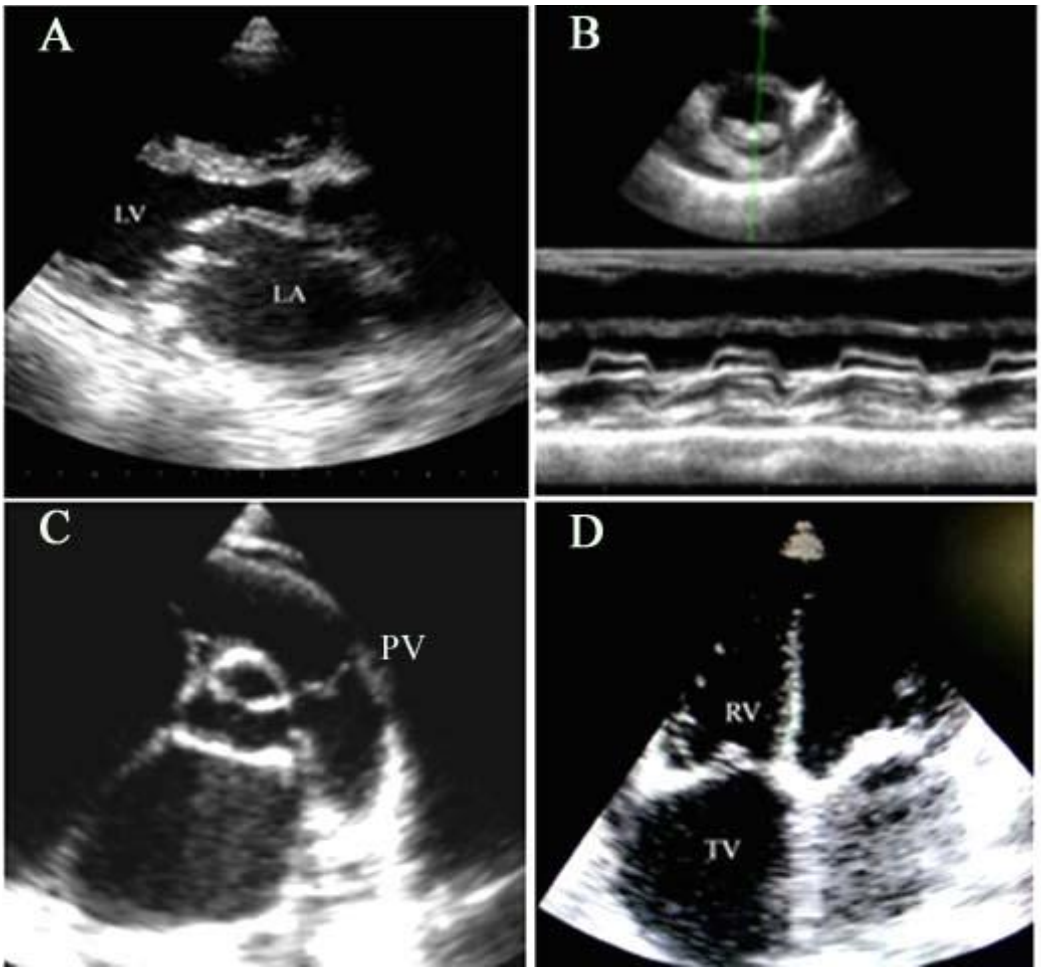
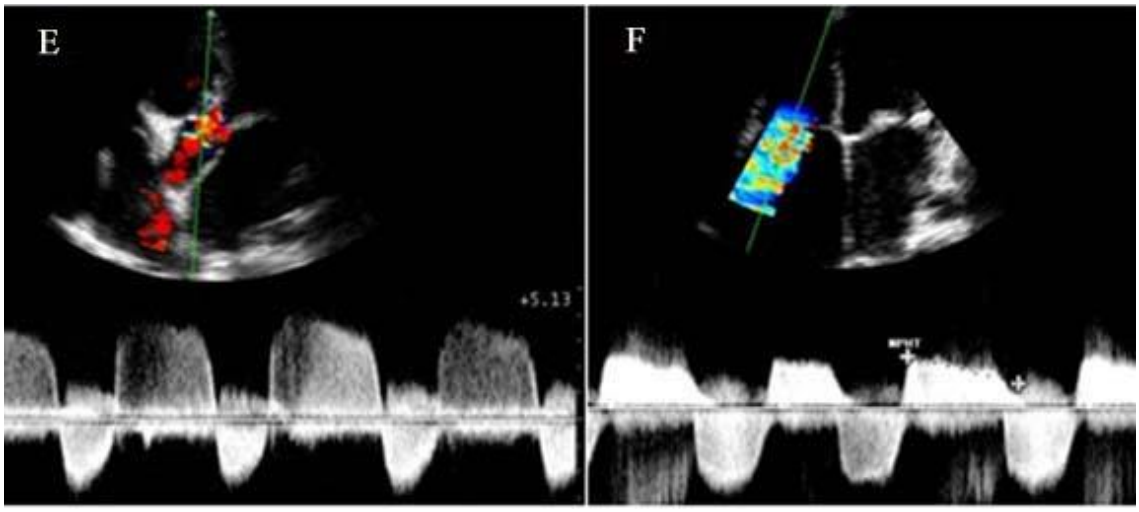
## CARDIOLOGY IMAGE

# Quadrivalvular Rheumatic Heart disease

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The displayed images are from 23 years old female who presented with weight loss, increasing dyspnea and a history of rheumatic fever at the age of 9 years. Panel A and B show rheumatic mitral stenosis. Panel B shows thick aortic and pulmonary valves leaflets. Panel D show severely stenosed tricuspid valve. Further confirmation of aortic stenosis/AR and tricuspid stenosis and regurgitation are provided in the Doppler map on Panel E and F consecutively.




Multivalvular heart disease may be caused by rheumatic heart disease (RHD), infective endocarditis, radiation therapy, carcinoid and anorectic drugs. In RHD mitral stenosis (MS), aortic stenosis (AS) and aortic regurgitation (AR) are commonly seen in combination with tricuspid valve regurgitation (TR). [1]

This case shows a severe form of RHD with Quadrivalvular lesions. Most of the previous reports on multivalvular disease included TR being secondary to pulmonary hypertension resulting from mitral valve involvement. This case show primary tricuspid and pulmonary rheumatic valve disease in addition to aortic and mitral valve disease. [2]

References

1. Paraskos JA. Combined valvular disease. In: Dalen JE, Alpert JS, editors. Valvular heart disease. 2nd ed. Boston: Little, Brown; 1987. p. 439-508.
2. Kumar AS, Iyer KS, Chopra P. Quadrivalvular heart disease. Int J Cardiol. 1985;7(1):66-69.