Isolated Pulmonary Valve Endocarditis
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Abstract
Right sided heart involvement in infective endocarditis in non drug addicts is rare. We report a case of isolated pulmonary valve endocarditis in a non drug addict male.

Key Words
Infection, Endocarditis, Pulmonary regurgitation

Introduction
Right sided endocarditis is mainly a disease of intravenous drug abusers. It can also occur in nondrug addicts (1). The incidence of right sided infective endocarditis ranges from 5-10% in different series (2,3). The literature from 1960 to 1999 identified only 36 reported cases of pulmonic valve endocarditis in structurally normal hearts (4). The present report underscores the importance of suspecting pulmonic valve endocarditis. We report a case of isolated pulmonary valve endocarditis in a young nonaddicted patient who was admitted in Govt. Medical College, Jammu.

Case Report
A 32 year old patient was admitted with history of persistent pyrexia & exertional dyspnoea for last 20 days. The fever was continuous, more in the evening hours and often associated with chills and rigors. Dyspnoea was grade 2-3 and progressively increasing. Patient had history of pulmonary tuberculosis one year back and took ATT for 9 months. The patient initially reported in Chest Diseases Hospital-Jammu and on finding a cardiac lesion was referred to the cardiology section of our hospital. On examination patient was febrile, anaemic and toxic. Clubbing was present in both the upper limbs and JVP was raised. Patient also had bilateral cataract since childhood and was operated on the right side in the hospital 10 years back. Cardiovascular system examination revealed normal S1 & S2, ejection systolic murmur (3/6) at pulmonary area and short early diastolic murmur in 3rd intercostal space on left parasternal region. Examination of chest, abdomen and nervous system was normal. Chest x-ray showed mild cardiomegaly with prominent pulmonary conus. EKG revealed RBBB with mild clockwise rotation of heart. Echocardiography showed mild dilatation of right atria with thickened mitral, tricuspid and aortic valve. Pulmonary valve was thickened, deformed & had pedunculated large vegetation (Fig. 1 & 2) along with moderate regurgitation (Fig. 3). Left ventricular (LV) function was good with ejection fraction about 65%. There was no clot or pericardial effusion. Successive blood culture done three times could not demonstrate any organism. Patient was put on high dose antibiotics (empirically) and his condition improved. He has remained asymptomatic till the last follow up.

Fig. 1. M mode & 2D recording of pulmonary vegetation

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Discussion

Right sided infective endocarditis in non drug addicts is a severe disease with high mortality rate and should be suspected in patients with pulmonary embolism and signs of infective endocarditis (5). Permanent pacemakers and central intravenous catheters have been generally implicated in the development of right sided infective endocarditis (6-8). Abortions and deliveries are frequently reported as a cause of right sided infective endocarditis in underdeveloped countries (9). In a retrospective analysis of 466 patients diagnosed as infective endocarditis over a span of 15 yrs in SKIMS, Srinagar it was found that right sided endocarditis was found in only 4 cases (10). Isolated native non-rheumatic pulmonary valve endocarditis is rarely described in the absence of intravenous drug abuse, intracardiac catheters or cardiac anomalies. Though the treatment of choice for the patient would have been surgical removal of the valve with vegetation but keeping in view the low socioeconomic condition of the patient he was managed conservatively. He was advised to undergo consultation for prophylaxis of endocarditis before any surgical intervention.

References