

Acquired Left Ventricular Septal defect to right atrial LV-RA shunts - 2010

Dr. Andrés R. Pérez Riera

Acquired Left Ventricular Septal defect to right atrial LV-RA shunts, which may be due to:

1. Complications of cardiac operative procedures
2. Infective Endocarditis
3. Thoracic trauma
4. Myocardial infarction.

Two-dimensional and pulsed doppler echocardiography can demonstrated left ventricular-right atrial shunt.

Perimembranous ventricular septal defect (VSD) is the rule.

Therapeutic Option: Emergency surgical correction in acute phase is the treatment of choice.

Aortic valve replacement and direct closure of fistula are necessary. Case reports of left ventricular-right atrial shunt due to infective endocarditis have been rarely seen, most of which were followed by poor prognosis.

Closing the communication percutaneously should be considered as an option in others tree cases.

References

1. Sinisalo JP, Sreeram N, Jokinen E, Qureshi SA. Acquired left ventricular-right atrium shunts. *Eur J Cardiothorac Surg.* 2010 Jun 1. [Epub ahead of print]
2. Ono K, Kitamura N, Otaki M, Tamura H, Yamaguchi A, Miki T. Left ventricular-right atrial shunt due to infective endocarditis--report of a case] *Nippon Kyobu Geka Gakkai Zasshi.* 1991 Sep;39:1809-1812.

3. Nagashima K, Wada Y, Kawai T, Adachi S, Shunto K, Oka T. Left ventricular-right atrial shunt with bacterial and rheumatic endocarditis of tricuspid valve *Kyobu Geka*. 1994 Nov;47:1026-1028.