

**22. Pioneered Multiple Heart Hole Closure** was performed by Dr. P Lal. This is useful in young girls having both ASD & VSD in 1997, May.

**PUBLICATION**

Paper Presented and published (**1<sup>st</sup> Scientific Paper of the Country**)

P Lal, PT Upasani : Simultaneous Transcatheter Closure of Secundum ASD Perimembranous VSD – A Case Report (abstract) Ind Heart Journal 50:612, 1998

MULTIPLE HEART HOLE CLOSURE

FIRST TIME IN INDIA

TIMES OF INDIA

MAY. 30, 1997.

*Two holes in heart  
closed without surgery*

By A Staff Reporter

NEW DELHI: A 37-year-old man with two holes in the heart has had them closed through a non-surgical procedure carried out at a hospital in Noida.

S M Aggarwal, the patient, underwent echocardiography at a leading institute after he complained of chronic breathlessness and palpitation.

Two holes, measuring 20 millimetre and 5 millimetre each, were spotted in the heart and the consultant advised him surgery, which he refused out of fear.

Then, he went to the Noida-based Metro Hospital and Heart Institute, specialising complex heart surgeries.

"The procedure, inserting a tube through the groin, took less than an hour and was performed under local anaesthesia," said Purshottam Lal, the cardiac surgeon who performed the procedure.

A thin tube was inserted through the hole and a folded patch brought to the other side of the hole, which expanded on release. It was fixed across the holes with anchoring wires and closed the holes.