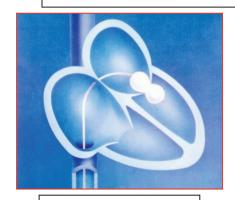
First Time in India "Inoue Balloon Mitral Valvuloplasty" (PTMC) was performed by Dr. P. Lal without Cathlab in February, 1992. This procedure is useful in patients with mitral stenosis during pregnancy protecting the foetus from the side effects of the radiation.

## **PUBLICATION**

Paper Presented and published in Indian Heart Journal (1st Scienti ic Paper of the Country on Balloon Mitral Valvuloplasty without Fluoroscopy)

- P Lal, PT Upasani, P Jain, KK Kapur, PD Nigam: Balloon Mitral Valvuloplasty without Fluoroscopy (abstract). Ind Heart J 48:529, 1996
- P Lal, PT Upasani : Balloon Mitral Valvuloplasty without Fluoroscopy (abstract). J Inter Cardiol, Volume 11, Issue Supplement S5-S136, 1998



**Balloon Device** 



Still Image from Procedure

" MITRAL VALVULOPLASTY" WITH ECHO WITHOUT CATHLAB FIRST TIME IN INDIA FEBRUARY 1995.

## epairing heart valve with echo-cardiography

calcified, tight mitral valve . in the heart of a 33-year-

in the heart of a 33-year, and from Assu was hold man from Assu was hold man from Assu was ned with the help of ultrand section of the sectio

one per cent of the popula-in India, particularly in the

ocio-economic, who saffer from RHD, a preventible condi-tion. The condition causes thick-ening and shrinking of the valve



leading to it's narrowing and leak-ing. The result is eachional fli-culty in breathing and palp as causing morbidity during the prime of life.

Dr 1 - said this procedure would be invaluable during pregnancy as there are many women.



who discover this problem only during the later part of their preg-nancy. This requires immediate opening of the narrow valve either

by surgery or valvuloplasty with the help of cath lab equipment under X-ray control causing the foctus to be exposed to radiation despite wrapping the patient in lead-screens.

Current advances allow echocardiography to be performed with the help of an endoscope insented through the oesophagus. If the procedure performed on Mr. Ahmed becomes standardised, it will save the expense of cath lab and can be performed by experienced interventionalists. It can also be performed by experienced interventionalists. It can also be performed on pregnant women without any Canger to the foctus. The dorrow also formed to the control of the canal of

women without any danger to the foctus.

The doctor also informed that according to the Japanese manufacturers of the balloon, there was no record in medical literature of a mittal valve being opened using the echo-cardiograph.

Dr. Lal has pioneered several interventional techniques in the country in the field of interventional cardiology for the treatment of coronary hear diseases, valvular and congenital heart diseases.

P.T. Jyothi.