1st Case of the Country of Implanting Gold Stent by Dr. Lal happened in August, 1997 at Metro Heart Institute, Noida. In the initial years of Coronary Stenting, there was high incidents of blood clot in the stent and the Gold Stent was introduced with a view that it should have less foreign body reaction and less blood clot formation.

PUBLICATION

P Lal, PT Upasani et al : First Clinical Experience with the Gold Stent (abstract) J Inter Cardiol, Volume 11, Issuue Supplement S5-S136, 1998

GOLD STENT IMPLANTATION FIRST TIME IN INDIA THE HINDU AUGUST 30,1997

Gold stent implanted on heart patient

By Our Staff Reporter

NEW DELHI, Aug. 29. A 24-carat gold stent is claimed to have been successfully implanted to open the arteries of the heart of a 45-year-old patient in the Capital.

Dr. Purshotum Lal, chief cardiologist and Director of Metro Hospitals and Heart Institute, adopted the non-surgical procedure to implant the gold on Mr. Natendar Kumar from Barnala.

Dr. Lal, who pioneered the stenting in India in 1991, said the angioplasty was done with deployment of gold stent in one of the major arteries with 95 per cent block.

The procedure, which took less than 30 minutes, ended with fully opened up artery and excellent results.

Extensive research, including animal studies conducted jointly by the team of doctors from Medical college Wisconsin-Milwaki, U.S. and the Metro Hospitals and Heart Institute, Noida, has demonstrated that as compared to other metals there was rapid endotheisation on 24 carat gold metal, Dr. Lal informed. It being an inert metal,

the foreign body reaction was less as well as the clot formation tendency was also minimal, he

Why was gold preferred over other related metals that could also have been used? Dr. Lal says that gold is well accepted by the body and gold jewellery produces the least allergic reaction compared to artificial jewellery made of stainless steel. He said even the dentists implanted gold tooth because of less foreign body:reaction. It was also very likely that gold could reduce the recurrence rate and other complications like thrombin formation because of less foreign body reaction, he stated.

Since the weight of the stent was less than a gram, its ultimate cost would not be more than the conventional stainless steel stents, Dr. Lal

Dr. Lal adopted many other procedures like athrectomy and rotablator in earlier occasions to treat coronary artery disease. He has also presented many papers of initial experiences at various conferences of Cardiological Society of India.