



# EuroValve

October 24-25 2014, Rome, Italy

[www.eurovalvecongress.com](http://www.eurovalvecongress.com)



## Sutureless 3F Enable valve in valve implantation for tricuspid bioprosthesis degeneration

*Stefano de Notaris, Luca Salvatore De Santo, Emilio Mango, Leonardo Savarese, Francesco Iorio, Mario Miele, Flora Numis, Donato Catapano, Paola Tesorio, Sergio Maria Caparrotti*

**Casa di Cura Montevergine - Alta Specialità del Cuore  
Mercogliano Avellino**

**Introduction:** The 3f Enable bioprosthesis is a new generation of equine pericardial self-expanding valve designed for sutureless implantation in aortic position. We describe the first implantation of this valve in tricuspid position.

**Methods:** A 46-year old man was referred for tricuspid bioprosthesis dysfunction (Carpentier Edwards 31). The patient had been already operated on for post-traumatic tricuspid valve regurgitation (1982) and bioprosthesis degeneration (1991). Echocardiographic scanning disclosed: tricuspid prosthesis area < 0,75 cm<sup>2</sup> and a mean transvalvular pressure gradient of 12 mmHg. Coronary arteries proved normal at preoperative angiography. A right thoracotomy was performed at the 4° intercostals space, CPB was instituted through femoral vessels cannulation with vacuum drainage. Bioprosthesis leaflet were resected and the sutureless bioprosthesis was implanted with the aid of 3 guiding stitches on a beating heart.

**Results:** Good position and normal function without paravalvular leakage of the valve were assessed by intraoperative transoesophageal echocardiography immediately after weaning from CPB. Postoperative course was regular. At 12-month follow-up, the patient was asymptomatic without sutureless prosthesis malfunction and without paravalvular leakage. The mean pressure gradient remained stable relative to the discharge value (4 mmHg at discharge, 4 mmHg at 12 months, 3 mmHg at 18 months).

**Conclusions:** Sutureless valve in valve implantation may be a safe and effective strategy in selected cases of bioprosthesis degeneration.

