

Licensing Opportunity

The PACTT is proposing an exclusive or non-exclusive license on adjustable mitral ring

Field:

Implantable dynamically adjustable device for mitral and tricuspid valve repair.

Development Phase:

Currently being tested on animals

Patent Status:

Patent application filed in December 2010, in the name of CHUV and naming as inventors P. Tozzi , E. Borghi, LK von Segesser and D. Hayoz

Innovative aspects:

Possibility to reshape the ring post-operatively and can be repeated as much as needed after its implantation.

Additional information is available upon request. (N° Ref. IDF 18/10)

Contact:

PACTT
Technology Transfer Office
University and University
Hospital Lausanne
21, Rue du Bugnon
CH - 1011 Lausanne
Switzerland
tel: +41 21 314 59 72
fax: +41 21 314 49 57
pactt.info@chuv.ch
<http://www.pactt.ch>

Adjustable mitral ring for post-implant optimization of mitral and tricuspid valve annuloplasty

Background

Mitral and tricuspid valve repair is a close to five hundred million dollars market which has been constantly increasing since the last 20 years.

During the classical valve repair procedure, the surgeon has to choose the ring size that fits best the valve. This open-heart surgical procedure is done under cardiopulmonary bypass which is not a physiologic condition. Therefore it is impossible to assess the quality of the mitral repair before the heart is beating again. This means that the surgeon has to wake up the patient to verify if the procedure was successful. Indeed, in more than 20% of the cases there is a post-surgical residual leaking needing either medication or a second open-heart surgery.

Description of the invention

The present invention comprises a ring that can be adjusted post-surgically. This system allows fine-tuning of the mitral ring shape on a beating heart during the procedure as well as months or years after the surgery by a cardiologist.

Proof of concept

During the first animal test, the inventors were able to fix post surgical residual leaking.

Applications and competitive advantages

Thanks to this new device surgeons will have the opportunity to fine tune the geometry of the implanted ring in a reversible manner to avoid post-implantation residual leaking. Moreover, cardiologists can also modify the geometry of the ring on a regular basis.