SPLIT TYPE PRECISELY-ANCHORABLE TRANSCATHETER TRICUSPID VALVE SYSTEM

Abstract

The split type precisely-anchorable transcatheter tricuspid valve system comprises a split transcatheter tricuspid valve anchoring stent (10) and a transcatheter artificial biological tricuspid valve (20), wherein the shape and structure of the transcatheter tricuspid valve anchoring stent (10) are matched with the tricuspid valve real structure after the patient's image data is subjected to three-dimensional reconstruction, the transcatheter tricuspid valve anchoring stent (10) is firstly delivered to the tricuspid valve site of the patient to be released, deformed and personalized and precise alignment with a supravalvular (40) and subvalvular (50) tissue of the patient's tricuspid valve site; the transcatheter artificial biological tricuspid valve (20) is delivered into the transcatheter tricuspid valve anchoring stent (10) to be released, and the transcatheter artificial biological tricuspid valve (20) is released and deformed and expanded to a functional state, the transcatheter tricuspid valve anchoring stent (10) is deformed again to be combined with the expanded transcatheter artificial biological tricuspid valve (20), and meanwhile, the re-deformation of the transcatheter tricuspid valve anchoring stent (10) is anchored by the combination of the anchoring stent and the subvalvular (50) tissue in advance. According to the split type accurately anchored transcatheter tricuspid valve system, based on a system designed by three-dimensional reconstruction, accurate anchoring of the personalized transcatheter tricuspid valve can be realized.

FIG. 3A